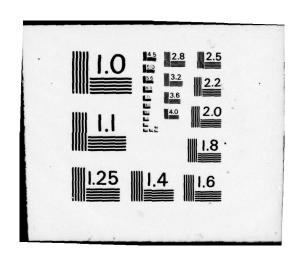
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DENTAL THERAPY ASSISTANT: EXPECTATIONS, PREFERENCES, AND REALITY

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Final Report

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work DTAs performed on primarily Restorative and Preventive tasks. It appeared that the methodology of Awareness Phase resulted in the convergence of the DTAs' expectations, preferences, and work accomplished with the dentists' expectations for the DTAs. There was not an overall significant difference between the F ratios in the Feedback and No Feedback conditions.

The DTAs in Awareness Phase were significantly more satisfied with their SUPERVISOR (team dentist) than in Baseline Phase. The Ten-to-Eighteen-Month DTAs were significantly less satisfied in Awareness Phase than in Baseline Phase with PROMOTIONS.

The potential areas of conflict were with the <u>Restorative</u> tasks where there were significant differences between the DTAs' actual performances and the dentists' expectations for the DTAs.

SUMMARY

The Army has implemented a program in dental care delivery which consists of dental treatment teams utilizing Dental Therapy Assistants (DTAs). The primary purpose of the present study was to look for overall conflicts between DTAs' attitudes and performance compared with the dentists' expectations. A second purpose was to determine the effects of providing Feedback (the results of how frequently a variety of tasks had been performed) on the Job Satisfaction, attitudes, and performance of the DTAs.

A Pilot Study was conducted to develop survey instruments. Phase I (Baseline Phase) was conducted for 20 consecutive work days at 24 installations. Baseline Phase results were tabulated and Feedback regarding the Baseline Phase findings was sent to 12 installations. Four months later Phase II (Awareness Phase) followed at the original 24 installations for another 20-day period.

The follow-up Awareness Phase indicated significant increases in the work DTAs performed on primarily Restorative and Preventive tasks. It appeared that the methodology of Awareness Phase resulted in the convergence of the DTAs' expectations, preferences, and work accomplished with the dentists' expectations for the DTAs. There was not an overall significant difference between the F ratios in the Feedback and No Feedback conditions.

The Job Satisfaction measures indicated that the DTAs in Awareness Phase were significantly more satisfied with their SUPERVISOR (team dentist) than in Baseline Phase. Of all the DTAs surveyed, the Ten-to-Eighteen-month DTAs were significantly less satisfied with PROMOTIONS. Overall, the DTAs were significantly less satisfied in Awareness Phase than in Baseline Phase with PROMOTIONS.

The potential areas of conflict were with the <u>Restorative</u> tasks where there were significant differences between the DTAs' actual performances and the dentists' expectations for the DTAs. Several of the <u>Other</u> tasks may also be considered potentially conflict-producing.

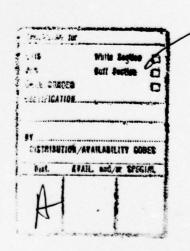


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DENTAL THERAPY ASSISTANT: EXPECTATIONS, PREFERENCES, AND REALITY

1. INTRODUCTION.

a. <u>Purpose</u>. The purpose of the present study was to look for overall conflicts between the dentists' attitudes (expectations) and the dental therapy assistants' (DTAs) attitudes and/or performance. There was an interest in determining which tasks DTAs actually perform in their work. It was felt that providing this information to both the DTAs and the dentists working with the DTAs would allow the DTAs to judge their own performance. The information could be used in the local post DTA Program of Instruction for orienting new DTAs to allow the DTAs to have realistic expectations about how they will be utilized. In addition, new dentists who work with DTAs would be able to set realistic work goals if informed of the productivity of DTAs as a function of the experience of comparably-trained DTAs.

b. Background.

- (1) A new program has been implemented in US Army dental care delivery, one which consists of dental treatment teams utilizing dental therapy assistants (DTAs). The dental therapy assistant is an Army-trained dental assistant/oral hygienist, who is further trained to perform a variety of tasks (which were previously only performed by dentists) under the direct supervision of a dentist. Both the dentists and the DTAs bring into the program varying expectations and preferences. Where there are significant differences between the expectations and actual performance and/or differences between preferences and actual tasks, conflicts may develop which may result in less than optimal team effectiveness.
- (2) Heid and Bair (1973) surveyed 699 Army dentists on their attitudes toward expanded-duty assistants (EDAs). A majority of the Army dentists favored delegation of duties such as placement and finishing of restorative materials. The dentists were unwilling to allow irreversible procedures or certain procedures in the area of diagnosis to be performed by assistants. The utilization of EDAs was expected to result in improvement of the effectiveness of the Army dental care program.
- (3) Douglas and Stacey (1972) reviewed statewide surveys conducted in Minnesota, Georgia, and North Carolina of dentists' opinions toward duties performed by auxiliaries. A majority of all respondents were in favor of delegating particular tasks to assistants, though the consensus was that the tasks of condensing amalgam, placing silicate and resin, and composite restorations should continue to be performed by dentists. While there was general acceptance of the expanded roles for auxiliaries, there was concern with the extent to which the auxiliaries would be employed.

- (4) Among private practitioners in general, recently graduated dentists were most willing to delegate new duties to auxiliaries (Martens et al, 1971). Surveys of dental students showed support for the expanded roles of assistants (Dorfman et al, 1971; Brearley et al, 1972).
- (5) Heid (1973) studied the effects of Army dental care programs composed of one dentist, one basic assistant, and one dental treatment room (DTR) which were augmented with dental therapy assistants (DTAs) and additional dental treatment rooms. The additional DTAs and DTRs very significantly increased team effectiveness over baseline measures.
- (6) Brearley and Rosenblum (1972) compared the performances of dental assistants with senior dental students on certain procedures. The dental assistants were equally capable of performing the delegated procedures without loss of quality and within acceptable time limits.
- (7) Goodstadt (1974) stated that the entry phase of an individual's socialization into a new organization deals with reality testing of initial expectations. Wanous (1973) and Graen (1974) have documented that unrealistic expectations lead to dissatisfaction, distilusionment, and a lessened feeling of attachment to the organization. The extent of the expectancy disconfirmation has its effect on retention of the individual within the organization. Wanous (1973) showed that realistic job previews produced more realistic job expectations and higher job survival in newly hired female telephone operators.
- (8) Scott (1972) reported that job expectancy is an important factor in labor turnover. Employees often terminate their jobs because they lack the opportunity to achieve what they had expected to when hired. Adequate orientation programs reduce unnecessary expenditures of time and money on new employees whose jobs do not provide the anticipated satisfaction.
- (9) Fox, Diamond, and Walsh (1960) reported on the situations which student nurses had indicated as stressful and satisfying, including those elements in the nursing school situation to which students alleged their withdrawal was due. Students who disliked nursing indicated it was not what they had expected. Katzell (1968) found that for a large number of first year nursing students there was a low but significant negative correlation between withdrawal and confirmation of expectations, especially with respect to satisfactions.
- (10) Prybil (1973) found that there was a low but positive relationship between job satisfaction and job performance. Job satisfaction is positively related to occupations, with higher percentages of satisfied workers found among professionals and businessmen.

(11) In a study of why physicians stay in the Army, Baker (1969) found that in the group of physicians planning to leave the service, less than one quarter had received much career information, and over one third felt poorly utilized as professionals. Of those who planned to remain in the Army the major reason was job satisfaction, followed by liking the military. Of numerous recommendations made for improving physician retention, one was that an effective information program be established.

2. OBJECTIVES. The study objectives to be accomplished are:

- a. To identify potential areas of harmony and conflict between the expectations, job preferences, actual performance, and feelings of job satisfaction of DTAs compared with the expectations of the dentists working with the DTAs.
- b. To determine whether providing feedback to both the dentists and DTAs will converge the expectations and performance.

METHODOLOGY.

a. Overview. The general methodology was to employ a pilot study of a survey instrument followed by on-site interviews with the DTAs and dentists to fine-tune survey instruments and instructions. In two separate phases, survey instruments were mailed to 24 installations to collect attitude and actual workload data from DTAs and dentists. Phase I (Baseline Phase) was conducted for 20 consecutive work days at 24 installations. Baseline Phase results were tabulated and Feedback regarding the Baseline Phase findings was sent to 12 installations. Four months later, Phase II (Awareness Phase) followed at the original 24 installations for another 20-day period.

b. Procedures.

- (1) A pilot study was conducted at Ft Dix, New Jersey from 21 June to 19 July 1974 to test the survey instruments and adequacy of the instructions. Appendix A contains the pilot study survey instruments. The 20-day recording period employed 20 daily worksheets (34), three administrations of both the Expectations and Preferences Survey (35), and the Job Descriptive Index (JDI) (36). On the first day of the survey the dentists working with the DTAs were also asked what they expected the DTAs to accomplish in an ensuing 10-day period (37). The instructions (38-39) and study materials were distributed by the Resources Training Officer at Ft Dix. Follow-up on-site interviews with all DTAs (N=10) and the dentists (N=6) working with the DTAs were conducted from 20 July to 28 July 1974. Interviews were structured to fine-tune the measuring instruments and instructions.
 - (2) The Baseline Phase was conducted from 4 October to November

1974 at 24 Continental United States (CONUS) installations training dental therapy assistants. Each DTA had his own packet of survey materials. The survey instruments included 20 daily worksheets (41) for recording the daily frequency of performance of a list of procedures which can be accomplished by a DTA; three copies of an attitude inventory to assess for a 10-day period the frequency each of the procedures was expected to be performed and how frequently the procedures were preferred to be accomplished (42); and three copies of the Job Descriptive Index (43). The attitude inventory and JDI were both administered on the first, tenth, and last day of the recording period for each DTA. The attitude scores were averaged for each task to determine trait measures of expectations and preferences; in addition, the subscales of the JDI were averaged to determine trait measures of job satisfaction for each DTA. Trait measures describe general attitudes or values (the mean of all state or situational attitudes). The military dentists working with the DTAs were given the same list of tasks and (on the first day of the survey) asked how many procedures they expected a DTA to accomplish for a 10-day period (44). The study materials and instructions (45-49) were distributed and monitored by the Dental Therapy Assistant, Resources Training Officer at each installation. Following the completion of the 20-day recording period, the study materials were sent back to Health Care Studies Division for compilation and analysis.

- (3) Baseline Phase data was compiled and analyzed using a 10-day base. The tasks were broken down into four categories: Restorative, Preventive, Indirect Patient Care, and Other procedures. The DTAs' actual work accomplished was converted to a 10-day base (work x 10/average number of days worked out of two 10-day periods). For example, a DTA may have performed task R1 (Place rubber dam) 22 times in the first 10 days and 18 times in the next 10 days. This averages to 20 occasions R1 was accomplished. However, the DTA worked only 9 days of the first 10 days and 7 days of the next 10 days (averaging to 8 days). The work for a 10-day base would equal 20 performances multiplied by (10 ideal days/average 8 actual days) = 25.
- (4) Baseline Phase data from 12 of the installations was compiled. Of the 24 posts, feedback was sent to 12 even-numbered installations derived from a list of all posts in the Continental United States (CONUS). In March 1975 each of the 12 installations was sent a summary report of the Baseline Phase data from their installation. Copies of the summary report were provided to all the DTAs and the dentists working with the DTAs, at the 12 installations. Appendix C contains a copy of the feedback letter.
- (5) Phase II (Awareness Phase) began the end of March 1975 and continued (for some of the 24 installations) into May 1975. Each DTA had his own packet of study materials. The survey instruments included 20 daily worksheets (53) for recording the daily frequency of performance of a list of procedures; an attitude inventory to assess

for a 10-day period the frequency each of the procedures was expected to be accomplished and how frequently the procedures were preferred to be accomplished (54); and the Job Descriptive Index (55). The attitude inventory and JDI were administered on the first, tenth, and last day of the recording period for each DTA. On the first day of the recording period, the military dentists were given an expectation sheet for the performance of a DTA for a 10-day period (56). Following the completion of the survey, the materials were sent back to Health Care Studies Division for analysis.

(6) A total of 306 of 358 DTAs were surveyed in the Baseline Phase and 277 of 358 DTAs surveyed in the Awareness Phase. Table 1 summarizes the demographic data on the DTA samples. There were 130 of 181 dentists who responded in the Baseline Phase and 141 of 181 dentists in the Awareness Phase.

4. FINDINGS.

- a. For each task, descriptive statistics (mean and standard deviation) were calculated for 10-day base periods to summarize the DTAs' actual performance, preferences, and expectations as well as the dentists' expectations for the DTAs. Appendix E depicts the overall summary of the 23 installations responding in Baseline Phase (85% of DTAs and 72% of dentists). Appendix F displays the overall results of the 23 responding installations from the Awareness Phase (77% of DTAs and 78% of dentists). One post (the same in the Baseline Phase and the Awareness Phase) did not respond.
- b. Comparisons were made between the results obtained in the Baseline Phase with those of the Awareness Phase. The comparisons relating the DTAs' performance include:
- (1) Actual performance accomplished for 10-day base showed a significantly greater amount of work accomplished (p<05) in the Awareness Phase for 6 of 12 Restorative tasks, 4 of 7 Preventive tasks, 2 of 12 Indirect Patient Care tasks, and 2 of 20 Other tasks. Table 2 summarizes the comparison between the Baseline Phase and the Awareness Phase.
- (2) The DTAs' expectations for work to be accomplished for a 10-day base showed a significantly greater amount of work expected to be accomplished (p<05) in the Awareness Phase on 4 of 12 Restorative, 5 of 7 Preventive, and 1 of 20 Other tasks. There was 1 Indirect Patient Care task which had a significant decrease in Awareness Phase expectations. Table 3 summarizes the comparison between the Baseline Phase and the Awareness Phase.
- (3) The overlap of significant differences (p<05) between the Baseline Phase and Awareness Phase results between the DTAs' expectations and actual performance accomplished showed an overlapping of 4 of 12 Restorative tasks and 4 of 7 Preventive tasks.

- (4) The DTAs' preferences for work to be accomplished for a 10-day base showed a significantly greater amount of work preferred to be accomplished (p<05) in the Awareness Phase on 1 of 12 Restorative tasks. Table 4 summarizes the comparison between the Baseline Phase and the Awareness Phase results.
- (5) The dentists' expectations for the work to be accomplished by the DTAs showed significantly more work to be accomplished (p<05) in the Awareness Phase than in the Baseline Phase for 2 of 20 Other tasks. Significantly greater work was expected (p<05) in the Baseline Phase than in the Awareness Phase for 2 of 12 Restorative tasks. Table 5 summarizes the comparison between the Baseline Phase and the Awareness Phase.
- c. Comparisons were made between the results obtained in the Feedback condition of the Awareness Phase with the No Feedback condition of the Awareness Phase. The comparisons relating the DTAs' performance include:
- (1) Actual performance accomplished for a 10-day base period showed a significantly greater amount of work performed (p<05) in the Feedback condition for 1 of 12 Restorative, 2 of 7 Preventive, 1 of 12 Indirect Patient Care, and 2 of 20 Other tasks. Significantly greater work was accomplished (p<05) in the No Feedback condition for 1 of 12 Restorative and 1 of 12 Indirect Patient Care tasks. Table 6 summarizes the comparison between the Feedback and the No Feedback conditions.
- (2) The DTAs' expectations for work to be accomplished for a 10-day base showed a significantly greater amount of work expected to be accomplished (p<05) in the Feedback condition for 2 of 12 <u>Preventive</u> and 2 of 20 <u>Other</u> tasks. Significantly more work was expected (p<05) in the No Feedback condition for 2 of 12 <u>Restorative</u> and 1 of 12 <u>Indirect Patient Care</u> tasks. Table 7 summarizes the comparison between the Feedback and No Feedback conditions.
- (3) The overlap of significant differences (p<05) between Feedback and No Feedback results between the DTAs' expectations and actual performance accomplished showed an overlapping of 1 of 12 Restorative, 2 of 7 Preventive, 1 of 12 Indirect Patient Care, and 1 of 20 Other tasks.
- (4) The DTAs' preferences for work to be accomplished for a 10-day base showed a significantly greater amount of work preferred to be accomplished (p<05) in the Feedback condition for 2 of 7 <u>Preventive</u>, 1 of 12 <u>Indirect Patient Care</u>, and 2 of 20 <u>Other</u> tasks. Significantly more work was preferred (p<05) in the No Feedback condition for 1 of 12 <u>Restorative</u> tasks. Table 8 summarizes the comparison between the Feedback and the No Feedback conditions.
- (5) The dentists expected significantly more work to be accomplished (p < 05) by the DTAs as a result of Feedback on 1 of 12

Restorative, 3 of 7 Preventive, 2 of 12 Indirect Patient Care, and 2 of 20 Other tasks. On 1 of 12 Restorative tasks, the dentists in the No Feedback condition expected significantly greater productivity (p<05) of the DTAs. Table 9 summarizes the comparison between the Feedback and No Feedback conditions.

- d. Frequency tabulations of the dentists' expectations for the DTAs' performance were made for both the Baseline Phase and for the Awareness Phase. Restorative tasks were expected to be performed very frequently (in general), followed by Preventive tasks. Relatively few Indirect Patient Care and Other tasks were expected to be performed very frequently. Table 10 and Table 11 summarize the frequency expectations of the dentists.
- e. The DTAs' job satisfaction levels were broken down by Level-of-Training. In the Baseline Phase results, there were no significant differences on the dependent variables except for PROMOTIONS broken down by Level-of-Training. The Ten-to-Eighteen-month group was significantly more dissatisfied with PROMOTIONS (p < .002). Table 12 summarizes the Baseline Phase satisfaction measures. In the Awareness Phase satisfaction measures, the Ten-to-Eighteen-month group was again significantly more dissatisfied with PROMOTIONS (p < .041). There were no other significant differences as a function of Level-of-Training. Table 13 summarizes the Awareness Phase results. A comparison between the Baseline Phase and the Awareness Phase results overall indicated significant differences between the Baseline Phase and the Awareness Phase responses to SUPERVISOR (p = .037) with the Awareness Phase responses being significantly more satisfied. Overall, DTAs reported being significantly less satisfied with PROMOTIONS (p = 004) in the Awareness Phase. Table 14 summarizes the comparisons between the Baseline Phase and the Awareness Phase satisfaction indices.
- f. A comparison between the Feedback and No Feedback conditions of the Awareness Phase revealed no significant differences on any of the satisfaction variables. Table 15 displays the results.
- g. The individual posts were broken down by DTAs' Level-of-Training in the Baseline Phase and the Awareness Phase for the demographic data and satisfaction measures. Appendix G contains the summary data for each post on the demographic data and satisfaction measures broken down by Level-of-Training.
- h. A comparison was made of the dentists' expectations for the procedures to be accomplished by the DTAs broken down by the dentists' experience working with the DTAs in the Awareness Phase. Of the tasks analyzed, overall there was <u>not</u> a significant difference between dentists' expectations as a function of their work experience with DTAs. Only on task 03 "Place tissue conditioning materials" was there a significant difference between groups with the most experienced dentists (24 and more months working with the DTAs) having significantly higher expectations.

i. A comparison of the dentists' expectations for the DTAs broken down by the years since the dentists graduated from dental school showed no overall significant differences between the dentists' expectations in the Awareness Phase. There was not a significant difference for the expected patients seen either.

5. DISCUSSION.

- a. A fundamental question to be addressed was how well the DTAs' expectations and preferences converged with the DTAs' actual performance and with the dentists' expectations for the DTAs. Each task was analyzed by a one-way analysis of variance (ANOVA) (Table 16 summarizes the results). There were significant differences on many of the tasks in the Baseline Phase for several reasons: (1) the large number of respondents in each cell amplify small differences between the means, (2) the DTAs' unfamiliarity with estimating the number of procedures for a 10-day time frame may have caused unrealistic predictions, (3) the overestimation by some new dentists who had little or no experience with DTAs (thus no comparison level from which to judge), and (4) the possible misinterpretation by some dentists of the instruction to estimate procedures for one rather than total procedures for all DTAs with whom the dentist worked. The follow-up Awareness Phase was intended to assess (a) how DTAs' performances had increased because of additional work experience, (b) the DTAs' greater familiarity with the recording surveys, (c) the dentists' familiarity with the survey instrument. In addition, half of the posts were provided with Feedback on the Baseline Phase results, to determine whether the Feedback would further converge the DTAs' attitudes and performance with the dentists' expectations for the DTAs.
- b. The comparison between Baseline Phase and Awareness Phase results indicated significant increases in work performed in the Awareness Phase on primarily Restorative and Preventive tasks (see Table 2). Overall, significantly more patients were seen in the Awareness Phase. This increase in work accomplished could be accounted for by the increase in field experience of the DTAs. Comparison of the productivity accomplished in the Baseline Phase vs the Awareness Phase for the 10-18 month DTAs indicated significant increases in the Awareness Phase productivity for 4 Preventive procedures. There were significantly more total patients seen by the 10-18 month DTAs in the Awareness Phase (p = .035). In addition, the 10-18 month DTAs reported working without chairside assistance on significantly more patients in the Awareness Phase (p = .023), indicating greater independence. The 4-9 month DTAs were assisted significantly more full-time by chairside assistants in the Awareness Phase (p = .012)and saw significantly more total patients in the Awareness Phase (p = .003). The In Training-to-3-month DTAs reported significantly greater numbers of Restorative procedures (six) in the Awareness Phase and in working without chairside assistance on significantly more patients in the Awareness Phase (p = 030). However, there was no significant difference between the Baseline Phase and the Awareness Phase for the total number of patients

seen by the In Training-to-3-month group of DTAs. The overall increase in patients seen in the Awareness Phase could be because more patients presented themselves for treatment in the Spring than in the Fall.

The increased work productivity in the Awareness Phase lead to increased expectations of DTA workload (the overlap between the DTAs' expectations and actual work accomplished in Restorative and Preventive tasks). The magnitude of the F ratios comparing the Baseline Phase differences (DTAs' expectations vs preferences vs actual vs dentists' expectations) with the F ratios for the Awareness Phase No Feedback and the Awareness Phase Feedback showed a significant decrease. There was not a significant difference between the Feedback vs the No Feedback F ratios. An analysis of the F ratios for Baseline Phase, Feedback Awareness Phase, and No Feedback Awareness Phase indicated: (a) overall the Baseline Phase had significantly greater F ratios than either of the Awareness Phase conditions (p<002); (b) the Baseline Phase had significantly greater F ratios (p<05) than either of the Awareness Phase conditions for Preventive, Indirect Patient Care, or Other tasks. The convergence of the F ratio differences between the DTAs' expectations vs preferences vs actual vs dentists' expectations in the Awareness Phase did not appear to be a function of Feedback. Rather, the convergence appeared to be a function of repeating the methodology. Perhaps respondents were more aware of what was being asked and took more time (and thought) into calculating their performance and expectation estimates in the Awareness Phase.

- c. The specific tasks on which the F ratios for differences between DTAs' expectations vs preferences vs actual vs dentists' expectations were highly significant ($F \ge 10$) included:
 - R1 Place rubber dam
 - R2 Place amalgam restoration
 - R3 Place composite restoration
 - R8 Place matrix retainer or celluloid strip
 - R9 Place sedative/temporary filling
 - 05 Take primary impression
 - 06 Place/remove periodontal pack
 - 013 Construct/place temporary splints
 - 014 Pre- and post-operative instructions
 - 015 Suture removal
 - 016 Management of dry socket
 - Total number of patients seen

These tasks, particularly the <u>Restorative</u> ones, are potential areas for conflict. Because the DTAs are being trained to perform primarily <u>Restorative</u> procedures, where there are significant differences between the DTAs' actual performances and the dentists' expectation for the DTAs, the dentists may express dissatisfaction with the DTAs.

d. The DTAs' job satisfaction levels were higher (as measured by the JDI) than reported for other populations (see Table 17). Locke (1970)

suggests that satisfaction is primarily a result of performance. Wanous (1974) further suggests the type of satisfaction, work experience of the individuals, and the type of job situation must also be considered in any discussion of attitudes and performance.

- e. The DTAs' overall level of satisfaction with SUPERVISOR indicated an increase in satisfaction in the Awareness Phase compared with the Baseline Phase (p 037). It is possible that the DTAs' increased performance in the Awareness Phase was reinforced by praise from the dentists who had more experience (in the Awareness Phase) working with DTAs. The discrepancies between the dentists' expectations and the DTAs' actual performances do not seem to have been communicated by the dentists to the DTAs; or, that the subscale of the JDI does not assess that particular aspect of satisfaction toward the SUPERVISOR.
- f. The Ten-to-Eighteen-month DTAs were significantly less satisfied with PROMOTIONS. Overall DTAs were significantly more dissatisfied in the Awareness Phase than in the Baseline Phase (p 004). When civilian DTAs graduate from training, they are promoted to GS-5; from GS-5 there is less opportunity for advancement. The In-Training-to-Three-month DTAs have promotions to look forward to and report relatively greater satisfaction toward PROMOTIONS. There are relatively few GS-6 positions, and depending upon local post policy, promotions may not be available. Without the incentive of promotions, a greater probability of DTAs leaving their job might be expected.

CONCLUSIONS.

- a. As presently operating, the Army's Dental Therapy Assistant Program tends to permit conflicts to develop between the dentists' expectations, the DTAs' actual performance, and the DTAs' expectations and preferences for how DTAs will be utilized.
- b. The use of a survey instrument designed to assist awareness can be expected to result in a significant reduction in the difference between the DTAs' preferences, expected performance, and the DTAs' actual performance. In addition, there will be an improved working relationship between the DTAs and the dentist (team supervisor).
- c. The use of a survey instrument designed to assist awareness can be expected to result in a significant reduction in the difference between the DTAs' actual performance and the dentists' expectations for the DTAs. The potential areas of conflict are with the Restorative tasks where there were significant differences between the DTAs' actual performances and the dentists' expectations for the DTAs for tasks: R1 Place rubber dam; R2 Place amalgam restoration; R3 Place composite restoration; R8 Place matrix retainer or celluloid strip; and R9 Place sedative/temporary filling. Several Other tasks were also considered potentially conflict-producing: 05 Take primary impression; 06 Place/remove periodontal pack; 013 Construct/place temporary splints; and 014 Pre- and post-operative instructions.

- d. Overall, the DTAs' job satisfaction levels were very high, higher than those found in populations of comparable sex, age, and educational levels.
- e. The DTAs expressed significant concern about career development, particularly promotion potential.
- f. There appears to be no significant increase in awareness from returning pooled results of locally administered surveys, though no harmful effects were observed.

RECOMMENDATIONS.

- a. Recommend all incoming DTAs be provided with realistic expectations as to how DTAs are employed. This can be accomplished by an initial survey to determine the new DTAs' expectations and also ask the DTAs to keep a record of the work accomplished. Following the initial survey, a repetition of the survey and recording period will serve to make the new DTAs aware of how and to what extent their performances are utilized.
- b. Recommend all incoming DTAs be informed of promotion policies early in their career, and as part of recruiting.
- c. Recommend all new dentists working with DTAs be provided with realistic expectations as to how DTAs are employed. This can be accomplished by an initial survey of the new dentists' expectations, followed at a later time by a follow-up survey to help facilitate the awareness of the dentists as to how and to what extent DTAs are used.
- d. Recommend as part of dental corps officer basic training, all dentists be informed of the DTA program and to what extent DTAs are employed.
- e. Recommend the results of this report be made available to all posts using DTAs and to all facilities training DTAs.

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TABLE 1

Demographic Information on DTAs

PHASE I		PHASE II
Number	Level-of-Training	Number
162	In Training-to-Three-months	75
36	Four-to-Nine-months	83
107	Ten-to-Eighteen-months	116
1	Others	3
306	Total	277
	Military - Civilian Status	
23	Military DTAs	24
280	Civilian DTAs	251
3	Unidentified Others	2
	Sex Breakdown	
38	Male	35
266	Female	242
2	Unidentified	0

Overall DTA Responses (Actual Performances) Phase I vs Phase II

Sample mean differences and level of significance from F tests. NS indicates no significant difference between means.

1.	RESTORATIVE TASKS					
1.	Place rubber dam		NS_	9.	Expose, process, or mount periapical radiographs	NS
2.	Place amalgam restoration	2>1	(0002)	10.		
3.	Place co-posite restoration		NS_	10.	Expose, process, or mount panoramic radiographs	NS
4.	Place resin restoration	2>1	(0001)	11.	Administrative duties	NS
5,	Polish restoration	2>1	(028)		(acting as NCOIC)	NS
6.	Place intermediate base	2>1	(0001)	12.	DTA coordinator duties	*
7.	Place pulp capping waterial		NS	IV.	OTHER TASKS	NS
8.	Place matrix retainer/ celluloid strip	2>1	(0001)	1.	ANUG management	NS
9.	Place sedative/temporary filling_		NS	3.	Place tissue conditioning materials	NS
10.	Construct/place temporary erown		' NS	4.	Prosthodontic-select shade/	NS
11.	Insert permanent bridge		NS	5.	Take primary impression	NS
12.	Adjust restoration occlusion	2>1	(017)	6.	Place/remove periodontal pack	NS
11.	PREVENTIVE TASKS			7.	Post-operative periodontal	
1.	Prophylaxis	2>1	(032)	. "	debridement	NS
2.	Topical flouride application		NS	.3	Test for tooth vitality	NS
3.	Hand scaling	2>1	(0002)	9.	Irrigate/dry root canal	NS
4.	Oral disease control (Patient education)	2>1	(001)	10.	Medicate root canal	NS_
5.	Pit and fissure scaling technique		NS	11.	Place/remove root canal seal	NS
6.	Cavitron	2>1	(0002)	12.	Construct/place orthodontic appliances	NS
7.	Community & military prevention (Phase I)		NS	13.	Construct/place temporary splints	NS
111.	INDIRECT PATIENT CARE TASKS			14.	Pre- and post-operative instructions for surgery, endodontics, periodontics, or prosthetics	NS
1.	Dental assistant duties		NS	15.	Suture removal	NS
2.	Sterilization techniques		NS	16.	Management of dry socket	NS
3.	Prescription writing		NS		Administer basic resuscitative	
4.	Pour and trim study model		NS		measures	NS
3.	Exemine/chert existing restoration	2>1	(005)	18.	Obtain patient's pulse 2>1	(001)
6.	Appointment scheduling		NS	19.	Obtain patient's blood pressure	NS
7.	Review patients dental/medical his	tory 2>1	(002)	20.	Obtain patient's temperature 2>1	(01)
	Expose, process, or mount bitewing radiographs		NS		Total patients seen2>1	(0001)

DTA Expectations Phase I vs Phase II

Sample mean differences and level of significance from F tests. NS indicates no significant difference between means.

1.	RESTORATIVE TASKS					
1.	Place rubber dam		NS	9.	Expose, process, or mount	NS
2.	Place amalgam restoration	2>1	(028)		periapical radiographs	NS_
3.	Place composite restoration		NS	10.	Expose, process, or mount panoramic radiographs	NS
4.	Place resin restoration		NS	11.	Administrative duties	NS
5.	Polish restoration	2>1	(002)		(acting as NCOIC)	
6.	Place intermediate base	2>1	(021)	12.	DTA coordinator duties	NS
7.	Place pulp capping unterial		NS	IV.	OTHER TASKS	NS
8.	Place matrix retainer/ celluloid strip	2>1	(035)	1.	ANUG management Pack gingival retraction cord	
9.	Place sedative/temporary filling	a forms	NS	3.	Place tissue conditioning materials	NS
10.	Construct/place temporary crown		NS	4.	Prosthodontic-select shade/	NS
11.	Insert permanent bridge		NS	5.	Take primary impression	- NS
12.	Adjust restoration occlusion		NS	6.	Place/remove periodontal pack	NS
11.	PREVENTIVE TASKS			7.	Post-operative periodontal	
1.	Prophylaxis	2>1	(016)		debridement	NS
2.	Topical flouride application	2>1	. (005)	8.	Test for tooth vitality	NS
3.	Hand scaling	2>1	(007)	9.	Irrigate/dry root canal	NS_
4.	Oral disease control (Patient education)	2>1	(025)	10.	Medicate root canal	
5.	Pit and fissure scaling technique		NS	11.	Place/remove root canal scal	NS
6.	Cavitron	2>1	(026)	12.	Construct/place orthodontic appliances .	NS
7.	Community & military prevention (Phase I)		NS	13.	Construct/place temporary splints	NS
111.	INDIRECT PATIENT CARE TASKS		5 - 1 - 1 - 1 d d	14.	Pre- and post-operative instructions for surgery, endodontics, periodontics, or prosthetics	NS
1.	Dental assistant duties	The same	NS	15.	Suture 'removal	NS
2.	Sterilization techniques	1>2	(043)	16.	Management of dry socket	NS
3.	Prescription writing		NS	17.	Administer basic resuscitative	
4.	Pour and trim study model		NS		measures	NS
5.	Examine/chart existing restoration	15	NS	18.	Obtain patient's pulse	NS
6	Appointment scheduling		NS	19.	Obtain patient's blood pressure 2>1	(032)
7.	Review patients destal/medical his	tory	NS	20.	Obtain patient's temperature	NS
8.	Expose, process, or mount bitewing radiographs	eta e	NS		Total patients seen '2>1	(002)

DTA Preferences Phase I vs Phase II

1.	RESTORATIVE TASKS SIGNIFICANT OF				
	Place rubber dam		9.	Expose, process, or mount periapical radiographs	NS
1.	Place annigum restoration 2>1	(039)	10.		
	Place convocite restoration	NS		panoramic radiographs	NS
	Place resin restoration	NS	11.	Administrative duties (acting as NCOIC)	NS
	Polish restoration	NS NS	12.	DTA coordinator duties	NS
	Place intermediate base	NS	17.		110
	Place pulp capping material	NS		OTHER TASKS	NS
	Place matrix retainer/		1.	ANUG management_	
	celluloid strip	NS	. 2.	Pack gingival retraction cord	NS
١.	Place sedative/temporary filling	NS	3.	Place tissue conditioning materials	NS
).	Construct/place temporary crown	NS	4.	Prosthodontic-sclect shade/ shape of teeth	NS
	Insert permanent bridge	NS	· s.	Take primary impression	NS
2.	Adjust restoration occlusion	NS	6.	Place/resove periodontal pack	
	PREVENTIVE TASKS		7.	Post-operative periodontal	
	Prophylaxis	NS		debridement	NS
	Topical flouride application	NS	8.	Test for tooth vitality	NS
١.	Hand scaling	NS	9.	Irrigate/dry root canal	NS
١.	Oral disease control (Patient		10.	Medicate root canal	NS
	education)	NS	11.	Place/remove root canal seal	NS
۶.	Pit and fissure sealing technique	NS	12.	Construct/place orthodontic	
6.	Cavitron	NS	-	appliances	NS
7.	Community 6 military prevention (Phase 1)	NS	13.	Construct/place temporary splints	NS
1.			14.	Pre- and post-operative instructions for surgery, endodontics, periodontics,	
		NS		ot prosthetics	NS
1.	Dental assistant duties		15.	Suture removal	NS
2.	Sterilization techniques	NS_	16.	Management of dry socket	NS
١.	Prescription writing	NS_	17.	Administer basic resuscitative	NS
١.	Pour and trim study model	NS	-	measures	NS
5.	Examine/chart existing restorations	NS	18.	Obtain patient's pulse	NS
6.	Appointment scheduling	NS	_ 19.	Obtain patient's blood pressure	NS
7.	Review patients dental/medical history	, NS	20.	Obtain patient's temperature	NS
	Expose, process, or mount	NS		Total patients seen 2>1	(028

Dentists Expectations Phase I vs Phase II

Sample mean differences and level of significance from F tests. NS indicates no

1.	RESTORATIVE TASKS significan	nt difference	e b	etween means.		
1.	Place rubber dam 1>	2 (025)	9.	Expose, process, or mount		
2.	Place amalgam restoration			periapical radiographs		NS
3.	Place composite restoration		10.	Expose, process, or mount		NS
4.	Place resin restoration		11.	Administrative duties		the Company
	Polish restoration			(acting as NCOIC)		NS
6.	Place intermediate base		12.	DTA coordinator duties		NS
			IV.	OTHER TASKS		
7.	Place pulp capping material		1.	ANUG management_		NS
8.	Place matrix retainer/ celluloid strip	NS	2.	Pack gingival retraction cord_		NS
9.	Place sedative/temporary filling		3.	Place tissue conditioning materials		NS
10.	Construct/place temporary crown	, NS	4.	Prosthodontic-select shade/ shape of teeth		NS
11.	Insert permanent bridge	NS		Take primary impression		NS
12.	Adjust restoration occlusion 13	2 (029)	6.	Place/remove periodontal pack		NS
11.	PREVENT LVE TASKS					
1.	Prophylaxis	NS	. 7.	Post-operative periodontal debridement		NS
2.	Topical flouride application	NS	8.	Test for tooth vitality		NS
3.	Hand scaling	NS	9.	Irrigate/dry root canal		NS
4.	Oral disease control (Patient education)	NS		Medicate root canal		NS
5.	Pit and fissure scaling technique	NS	11.	Place/remove root canal seal		NS
6.	Cavitron	NC	12.	Construct/place orthodontic appliances		NS
7.	Community & military prevention (Phase I)	NS	13.	Construct/place temporary splints_		NS
111.	INDIRECT PATIENT CARE TASKS		14.	Pre- and post-operative instruction for surgery, endodontics, periodont or prosthetics		NS
1.	Dental assistant duties	NS				NS
2.	Sterilization techniques	NS	15.			NS
3.	Prescription writing	NS	16.			No
4.	Pour and trim study model	NS	17.	Administer basic resuscitative measures		NS
s.	Examine/chart existing restorations	NS	18.	Obtain patient's pulse	2>1	(036)
6.	Appointment scheduling	NS	19.	Obtain patient's blood pressure	2>1	(013)
7.	Review patients dental/medical history	NS	20.	Obtain patient's temperature		NS
8.	Expose, process, or mount	NS		Total patients seen	1>2	(002)
	bitching radiographs		-	.vens Parsence Been	11/2	1002

DTA Responses (Actual Performance) Feedback vs No Feedback

Phase II

Sample mean differences	and	1eve1	of	significance	from F	tests.	NS indicates no
							no znazeateo no

ı.	RESTORATIVE TASKS significant	difference	bet	ween means.	
1.	Place rubber dam	NF>F(001)	9.		NS
2.	Place amalgam restoration			periapical radiographs	113
3.	Place composite restoration		10.	Expose, process, or mount panoramic radiographs	NS
4.	Place resin restoration	F>NF (046)	11.	Administrative duties	NC
5.	Polish restoration	NS		(acting as NCOIC)	NS NS
6.	Place intermediate base	NS	12.	DTA coordinator duties	NS.
7.	Place pulp capping material	NS	IV.	OTHER TASKS	ENT/000
8.	Place matrix retainer/		1.		F>NF(023)
	celluloid strip	NS	2.	Pack gingival retraction cord	NS NS
9.	Place sedative/temporary filling	NS_	3.	Place tissue conditioning materials	NS
10.	Construct/place temporary crown	NS_	4.	Prosthodontic-select shade/ shape of teeth	NS
11.	Insert permanent bridge	NS	5.	Take primary impression	- NS
12.	Adjust restoration occlusion	NS			
11.	PREVENTIVE TASKS		6.	Place/remove periodontal pack	NS
1.	Prophylaxis	NS	7.	Post-operative periodontal debridement	NS
2.	Topical flouride application	F>NF(01)	8.	Test for tooth vitality	NS
3.	Hand scaling	NS_	9.	Irrigate/dry root canal	NS.
4.	Oral disease control (Patient education)	NS	10.	Medicate root canal	
5.	Pit and fissure sealing technique	NS	11.	Place/remove root canal seal	NS
6.	Cavitron	F>NF(012)	12.	Construct/place orthodontic appliances	NS
7.	Community & military prevention (Phase 1)	NS	13.	Construct/place temporary splints	NS_
11.	INDIRECT PATIENT CARE TASKS		14.	Pre- and post-operative instructions for surgery, endodontics, periodontic or prosthetics	, NS
1.	Dental assistant duties	NF>F(007)	15.	Suture removal	NS
2.	Sterilization techniques	NS	16.	Management of dry socket	
3.	Prescription writing	NS	17.	Administer basic resuscitative	40
4.	Pour and trim study model	NS		measures	NS
5.	Examine/chart existing restorations	F>NF(002)	18.	Obtain patient's pulse	NS
6.	Appointment scheduling	NS	19.	Obtain patient's blood pressure	NS
7.	Review patients dental/medical history_	NS	20.	Obtain patient's temperature	F>NF(011)
8.	Expose, process, or mount bitewing radiographs	NS		Total patients seen	

DTA Responses (Expectations) Feedback vs No Feedback Phase II

Sample mean differences and level of significance from F tests. NS indicates no significant difference between means.

1.	RESTORATIVE TASKS					
1.	Place rubber dam . N	F>F	(001)	_ 9.		NS
2.	Place amalgam restoration N	F>F	(033)		periapical radiographs	NS
3.	Place composite restoration		NS	10.	Expose, process, or mount panoramic radiographs	NS
4.	Place resin restoration		NS	_ 11:	Administrative duties (acting as NCOIC)	NS
5.	Polish restoration		NS			NS
6.	Place intermediate base		NS	12.	DTA coordinator duties	No
7.	Place pulp copping material		NS	1v.	OTHER TASKS ANUG management	NS
8.	Place matrix retainer/ celluloid strip		NS	1. 2.	Pack gingival retraction cord	NS
			· · ·			NS
9.	Place sedative/temporary filling		NS_	_ 3.	Place tissue conditioning materials	
10.	Construct/place temporary crown		NS	_ 4.	Prosthodontic-sclect shade/ shape of teeth	NS
11.	Insert permanent bridge		NS_	- 5.		NS
12.	Adjust restoration occlusion		NS	- 6.	Place/remove periodontal pack	NS
11.	PREVENTIVE TASKS			. 7.	Post-operative periodontal	
1.	Prophylaxis		NS	_ ``	debridement	NS
2.	Topical flouride application	F>NF	(004)	_ 8.	Test for tooth vitality	NS
3.	Hand scaling		NS	9.	Irrigate/dry root canal	NS
4.	Oral disease control (Patient education)		NS	10.	Medicate root canal	
5.	Pit and fissure sealing technique		NS	11.	Place/remove root canal seal	NS
4		F>NF	(048)	12.	Construct/place orthodontic	NS
7.	Community 6 military prevention		NS	13.		NS
Tan Consu	(Phase I)	1000	ИЭ	- 14.	Pre- and post-operative instructions	
111.	INDIRECT PATIENT CARE TASKS	NF>F	(001)		for surgery, endodontics, periodontics, or prosthetics	NS
1.	Dental assistant duties			- 15.	Suture removal F>NF	(011)
2.	Sterilization techniques		NS	- _{16.}	Management of dry socket	NS
3.	Prescription writing		NS	- 17.	Administer basic resuscitative	in the same
4.	Pour and trim study model		NS		measures	NS
5.	Examine/chart existing restoration		NS	_ 18.	Obtain patient's pulse	NS
6.	Appointment scheduling		NS	_ 19.	Obtain patient's blood pressure	NS
7.	Review patients dental/medical his	tory_	NS	_ 20.	Obtain patient's temperature F>NF	(005)
8.	Expose, process, or mount bitewing radiographs		NS	_	Total patients seen	encill8

DTA Responses (Preferences) Feedback vs No Feedback Phase II

Sample mean differences and level of significance from F tests. NS indicate no significant difference between means.

RESTORATIVE TASKS	t difference	between means,	
Place rubber dam NF>F	(001) 9.		
Place amalgam restoration	NS		NS
Place composite restoration		Expose, process, or mount panoramic radiographs	NS
Place resin restoration	NS_ 11.		NS
Polish restoration	NS		NS
Place intermediate base	NS		NO
Place pulp capping material	NS		(03)
Place matrix retainer/			
celluloid strip	NS 2.	Pack gingival retraction cord	NS_
Place sedative/temporary filling	NS 3.	Place tissue conditioning materials	NS
Construct/place temporary crown	NS 4.		NS
Insert permanent bridge	NS .		NS
Adjust restoration occlusion	NS		(031)
PREVENTIVE TASKS			
Prophylaxis	NS '	debridement	NS
Topical flouride application F>NF	(05) 8.	Test for tooth vitality	NS
Hand scaling	NS 9.	Irrigate/dry root canal	NS
Oral disease control (Patient education)	NS		
	NS		NS
	12.	Construct/place orthodontic	NS
Community & military prevention	13.	Construct/place temporary splints	NS
INDIRECT PATIENT CARE TASKS	14.	Pre- and post-operative instructions for surgery, endodontics, periodontics, or prosthetics	NS
Dental assistant duties	NS 15.	W/VIII	(007)
Sterilization techniques	NS		NS
Prescription writing F>NF	(007)		
Pour and trim study model	NS 17	Measures	NS
Examine/chart existing restorations	NS 18.	Obtain patient's pulse	NS
Appointment scheduling	NS 19.	Obtain patient's blood pressure	NS
Review patients dental/medical history	NS 20.	Obtain patient's temperature	NS
Expose, process, or mount			
	Place rubber dam NF>F Place amalgam restoration Place composite restoration Place composite restoration Place resin restoration Place intermediate base Place pulp capping material Place matrix retainer/ celluloid strip Place sedative/temporary filling Construct/place temporary crown Insert permanent bridge Adjust restoration occlusion PREVENTIVE TASKS Prophylaxis Topical flouride application F>NF Hand scaling Oral disease control (Patient education) Pit and fissure sealing technique Cavitron F>NF Community & military prevention (Phase I) INDIRECT PATIENT CARE TASKS Dental assistant duties Sterilization techniques Prescription writing F>NF Pour and trim study model Examine/chart existing restorations Appointment acheduling	Place rubber dam NF>F (001) 9. Place amalgam restoration NS Place composite restoration NS Place resin restoration NS Place resin restoration NS Place intermediate base NS Place pulp capping material NS Place matrix retainer/ celluloid strip NS Place sedative/temporary filling NS Construct/place temporary crown NS Insert permanent bridge NS Adjust restoration occlusion NS PREVENTIVE TASKS Prophylaxis NS Topical flouride application F>NF (05) 8. Hand scaling NS Oral disease control (Patient education) NS Community & military prevention (Phase I) NS Indiffect PATIENT CARE TASKS Dental assistant duties NS Sterilization technique NS Prescription writing F>NF (007) Pour and trim study model NS Examine/chart existing restorations NS 18. Appointment acheduling NS 19.	Place rubber dam NFDF (001) 9. Expose, process, or mount periapical radiographs Place analgam restoration NS Place composite restoration NS Place resin restoration NS Place resin restoration NS Place intermediate base NS Place intermediate base NS Place pulp capping material NS Place matrix retainer/ celluloid strip NS Place sedative/temporary filling NS Place sedative/temporary filling NS Insert permanent bridgo NS Adjust restoration occlusion NS Adjust restoration occlusion NS PRECYFITUE TASKS Prophylaxis NS Oral disease control (Patient education) Pit and fissure sealing tochnique NS Cavitron FONF (028) Community & military prevention (Phase I) INDIRECT PATIENT CARE TASKS Dental assistant duties NS Sterilization techniques Prescription writing FONF (007) Pour and trim study model NS Appointment acheduling NS 19. Obtain patient's blood pressure

Dentists Expectations Feedback vs No Feedback Phase II

Sample mean differences and level of significance from F tests. NS indicates no significant difference between means.

	erk	nilicant	directen	ice	between means.	
1.	RESTORATIVE TASKS					
1.	Place rubber dam	NF>F	(005)		Expose, process, or mount perispical radiographs	NS
2.	Place amalgam restoration		NS .			
3.	Place composite restoration		NS 1	10.	Expose, process, or mount panoramic radiographs	NS
4.	Place resin restoration		NS 1:	11.	Administrative duties (acting as NCOIC)	NS
5.	Polish restoration		NS			(04)
6.	Place intermediate base		NS			(04)
7.	Place pulp capping material		NS		OTHER TASKS	****
8.	Place matrix retainer/	•		1.	ANUG management F>NF	(023)
	celluloid strip	<u> </u>	NS :	2.	Pack gingival retraction cord	NS
9.	Place sedative/temporary filling_	F>NF	(03)	3.	Place tissue conditioning materials	NS
10.	Construct/place temporary crown_		NS .	4.	Prosthodontic-select shade/	NS
11.	Insert permanent bridge		NS			NS
12.	Adjust restoration occlusion		NS		Take primary impressionF>NF	(041)
II.	PREVENTIVE TASKS			6.	riace/resove periodolicar pack	(041)
1.	Prophylaxis	F>NF	(03)	7.	Post-operative periodontal debridement	NS
2.	Topical flouride application	F>NF	(04)	8.	Test for tooth vitality	NS
3.	Hend scaling		NS	9.	Irrigate/dry root canal	NS
4.	Oral discase control (Patient		NS 1	10.	Medicate root canal	NS
	education)	T\un	1	11.	Place/remove root canal seal	NS
5.	Pit and fissure sealing technique	FONE		12,	Construct/place orthodontic	
6.	Cavitron		NS		appliances	NS
7.	Community 6 military prevention (Phase 1)		NS	13.	Construct/place temporary splints	NS
111.	INDIRECT PATIENT CARE TASKS		1	14.	Pre- and post-operative instructions for surgery, endodontics, periodontics,	NS
1.	Dental assistant duties		NS		or pronthetics	
2.	Sterilization techniques		NS	15.	Suture removal	NS
3.	Prescription writing		NS		Management of dry socket	NS
4.	Pour and trim study model	F>NF	(04)	17.	Administer basic resuscitative	NS
5.	Exemine/chart existing restoration		We	18.	Obtain patient's pulse	NS
6.	Appointment scheduling		NS 1	19.	Obtain patient's blood pressure	NS
7.	Review patients dental/medical hi				Obtain patient's temperature	NS
					The state of the s	Armed and
•.	Expose, process, or mount bitewing radiographs		NS		Total patients seen NF>F	(025)

TABLE 10

Dentists' Expectations for Frequency of Performance in Phase I

S = seldom or never
I = infrequently
f = frequently

VF = very frequently NA = not applicable

			1	1	1	1
		S	I	F	VF	NA
	RESTORATION TASKS			20	100	
1.	Mace rubber dam	4	9	7	90	0
2.	Place amalgam restoration	0		-	114	0
3.	Mace composite restoration	0	7	46	70	0
4.	Place resin restoration	49	22	6	8	38
5.	Pollsh restoration	12	23	44	43	1
6.	Place Intermediate base	0	11	23	89	0
7.	Place pulp capping material	16	29	38	39	1
8.	Place matrix retain or/	0	2	14	107	0
9.	Place sedative/temporary filling	5	38	45	34	1
10.	Construct/place temporary crown	38	54	18	6	7
11.	Insert permanent bridge	76	15	1	1	30
12.	Adjust restoration occlusion	18	36	35	31	3
n 1.	PREVENTIVE TASKS Prophylaxis	11	24	44	40	4
2.	Topical fluoride application	30	28	27	25	13
3.	Hand scaling	15	39	42	20	7
4.	Oral disease control (Patient	3	13	41	63	3
5.	Pit and fissure sealing technique	73	17	3	1	29
6.	Cavitron	23	25	38	29	8
7.	Community & military prevention (Phase I)	58	6	6	11	42
m t.	INDIRECT PATIENT CARE TASKS	7	13	30	67	6
2.	Sterilization techniques	24	25	30	34	10
3.	Prescription writing	78	9	2	2	32
4.	Pour and trim study model	52	38	9	5	19
5.	Examine/chart existing restorations_	36	20	24	20	23
6.	Appointment scheduling	37	11	21	38	16
7.		. 8	4	23	86	2
	Review putients dental/medical histor	_	-	-	-	
8.	Expose, process, or mount bitewing radiographs	48	31	15	7	22

	No. of the state o	S	1	F.	VF	NA
.	Expose, process, or mount periapical radiographs	45	39	10	6	23
0.		71	12	2	3	35
1.	Administrative duties (acting as NCOIC)	70	3	1	3	46
2.	DTA coordinator duties	56	6	6	5	50
v	OTHER TASKS	57	47	2	1	16
	ANUG management	-	33	6	3	27
1.	Pack gingival retraction cord	54	-	1	2	29
١.	Place tissue conditioning materials	76	15	1	1-2	29
١.	Prosthodontic-select shade/shape of teeth	53	27	6	3	34
	Take primary Impression	24	37	35	10	17
5.		58	16	3	5	41
6.	Place/remove periodontal pack	63	16	4	3	37
7.	Post-operative peridontal debridement	54	31	14	0	24
8.	Test for tooth vitality	28	38	27	6	24
9.	Irrigate/dry root canal	28	38	28	5	24
10.	Medicate root canal	_	36	+	14	
11.	Place/remove root canal seal	34	-	-	+	1
12.	Construct/place orthodontic appliances	63	+-	+	1-0	+
13.	Construct/place temporary splints	79	4	2	1 2	36
14.	for surgery, endodontics, periodontics,	27	33	25	15	23
	or prosthetics	47	35	5	7 4	32
15.		70	+-	1	10	39
16		00		+	1	2 25
17	. Administer basic resuscitative measures	-	-	-	1	19
18	Obtain patient's pulse	71	-		-	-
19	Obtain patient's blood pressure	68	-	-		119
20	Obtain patient's temperature	173	. 24	6	1	18

TABLE 11

Dentists' Expectations for Frequency of Performance in Phase II

S + seldom or never

I = infrequently
F = frequently

VF = very frequently NA = not applicable

		s	I	F	VF	NA	1		s	1	F	VF	NA
	RESTORATION TASKS						9.	Expose, process, or mount periapical radiugraphs	57	33	10	9	32
1.	Place rubber dam	10	15	29	84	3					4	5	47
2.	Place amalgam restoration	1	3	3	131	1.3	10.	panoramie radiographs	70	15	4	-	141
3.	Mace composite restoration	2	_ 7_	48	80	4	11.	Administrative duties	69	5	2	0	65
4.	Place resin restoration	52	15	7	11	56	1.		73	10	6	3	49
5.	Polish restoration	10	28	60	38	5	12.	DIA coordinator contra					1
6.	Place intermediate base	6	5	25	101	4	iv	OTHER TASKS	69	38	10	1,	23
7.	Place pulp capping material	18	42	31	45	5	1.	ANUG management	-	-	-	2	29
8.	Mace matrix retain or/	2	2	20	115	1 ,	2.	Pack gingival retraction cord	60	42	8	-	36
		6	32	59	41	3	3.	Place tissue conditioning materials	80	22	3	10	130
7.	Place sedative/temporary filling	48	60	13	10	10	4.	Prosthodontic- select shade/shape	62	31	10	12	36
10.	Construct/place temporary crown	75	14	1	0	51	†	of teeth	21	41	51	9	19
11.	Insert permanent bridge	22	42	41	28	8	5.	Take primary impression	74	17	6	1	43
12,	Adjust restoration occlusion	- 22	42	41	20	10	6.	Place/remove periodontal pack	72	15	6	1	47
			La Mi				7.	Post-operative peridontal debridement	60	36	16	2	27
11	PREVENTIVE TASKS	10	29	65	34	3	8.	Test for tooth vitality	44	45	24	8	20
1.	Prophylaxis		-	-		+	9.	Irrigate/dry root canal	44	144	27	9	17
2.	Topical fluoride application	35 20	50	50	26	8	10		49	38	22	6	26
3.	Hand scaling	20	30	30	17	14	11		1	17	7	1	54
4.	Oral disease control (Patient education)	2	7	50	78	4	12		72	+	+	-	-
5.	Pit and fissure sealing technique	74	16	7	1	43	13	. Construct/place temporary splints	80	+3	1-	10	1
6.	Cavitron	24	41	41	25	10	14	for surgery, endodontics, periodontics,	30	38	38	11	24
7.	Community & military prevention	55	11	3	12	60		or prosthetics	160	35	111	4	31
	(Phase I)			-		1	115		76	-	5	0	41
m	INDIRECT PATIENT CARE TASKS			1			16		+	+-	1	1 2	30
١.	Dental assistant duties	9	12	45	70	5	1"		176	-	_	-	-
2.	Sterilization techniques	18	27	37	44	15	1"		77	-	_	_	_
3.	Proscription writing	65	14	4	1	57	19		78	-	-	-	_
4.	Pour and trins study model	55	42	14	5	25	30	. Obtain patient's temperature	40	120			
5.	Exemine/chart existing restorations	40	23	29	26	23	1						
6.	Appointment scheduling	37	21	20	41	22	1						
				21	98								

54 28 14 12

TABLE 12

Means for Demographic and Satisfaction (Job Descriptive Index)

Values Broken Down by DTAs' Level-of-Training in Phase I

	In Trng-3 mo.	4-9 mo.	10-18 mo.	Population	ANOVA Level of Significance
Demographic Data		•			
Age	30:86	35.94	38.83	34.16(N=291)	(001)
Years Civ Educ	12.64	13.11	12.88	12.77 (N=305)	(049)
Satisfaction					
Work	43.28	44.94	42.18	43.08 (N=305)	NS
Supervisor	45.74	46.55	44.04	45.22(N=303)	NS
Co-Workers	42.50	46.11	42.29	42.89(N=301)	NS
Pay	9.18	9.58	9.06	9.19(N=305)	NS
Promotions	12.64	13.69	9.78	11.78 (N=305)	(002)

TABLE 13

Means for Demographic and Satisfaction (Job Descriptive Index)
Values Broken Down by DTAs' Level-of-Training in Phase II

	In Trng-3 mo.	4-9 mo.	10-18 mo.	Population	ANOVA Level of Significance
Demographic					
Age .	31.68	32,66	39.06	35.04 (N=269)	(001)
Years Civ Educ	12.66	12,82	12.86	12.79(N=275)	NS
Satisfaction					
Work	42.94	43.03	41.99	42.50 (N=275)	NS
Supervisor	46.57	46.35	46.39	46.43(N=276)	NS
Co-Workers	44.13	44.32	42.18	43.37 (N=270)	NS
Pay	8.89	8.33	9.31	8,85 (N=273)	NS
Promotions	11.92	9.54	9.06	9.99(N-267)	(041)

TABLE 14

Means and Comparison Between Phase I vs Phase II Satisfaction Measures

		11	ANOVA Level of Significance
Work	43.00	42,45	NS
Supervisor	45.18	46.39	(037)
Co-Workers	42.83	43.50	NS
Pay	9.16	8.75	NS
Promotions	11.85	9.96	(004)

TABLE 15

Means and Comparison Between Demographic and Satisfaction (Job Descriptive Index) Values for Feedback vs No Feedback Conditions in Phase II

		Mean Values	
	No Feedback	Feedback	ANOVA Level of Significance
Demographic		W.65	
Age	34.89	35.17	NS
Years Civ Educ	12.69	12.87	NS
			17 00 1100
Satisfaction			
Work	42.15	42.79	NS -
Supervisor	46.78	46.14	NS
Co-Workers	42.81	43.84	NS
Pay	8.58	9.09	NS
Promotions	10.73	9.35	NS

TABLE 16

Summary of F ratios (of differences between DTAs' expectations, preferences, actual 10-day performance with dentists' expectations) between Phase I and Phase II and significant Differences

	Phas	e I Overall	Phase II	No Feedback	Phase II Feedback				
Restorative Tasks	F Ratio	Difference	P Ratio	Difference	F Ratio	Difference			
1	65.368	4>3=2>1	18.270	4=3=2>1	12.978	4=3=2>1			
2	40.763	4>3>1; 4=2>1	15.988	4=3=2>1	14.412	4=3=2-1			
3	41.817	4>3=2>1	22.644	4>3=2>1	16.404	4-3=221			
4	6.048	3=2>1	1.316	NS	1.823	NS			
3	32.277	4>3=2>1	7.298	4=3=2>1	12.176	4=3=2>1			
6	21.120	4=3=2>1	8.483	3=2>1	3.813	4>1			
7	34.716	4>3=2>1	7.324	4=3>1	16.171	4-3=2=1			
B FREE MEST	64.825	4>3=2>1	17.060	4=3=2>1	18.553	4>3=2>1			
9	25.934	4>2=3>1	18.443	4>3=2 <i>></i> 1	25.873	4>3=2=1			
10	14.598	4=2>3=1	9.554	4>3=2; 4>2>1	7.823	4>3=1			
11	10.599	2>4=3=1	5.155	2>1	8.602	2>3=1			
12	13.555	4-3>1; 4>2>1	2.869	NS	1.237	NS			
Preventive Tasks	Ley Com			060 001.1					
1	32.862	4>3=2>1	8.958	4>2>1; 3>1	8.464	4>2=1; 3>1			
2	12.873	423=221	4.016	4-1	4.785	4>1			
3	19,095	453=251; 4535	2.784	NS	2.822	NS			
4	21.568	4>3=2>1	4.590	421	12.243	4>2=3; 3>1			
5	5.325	4=2>1	1.487	NS	3.362	NS			
6	25.975	4>3=2>1	6.691	321; 422	4.663	4>1			
7	.607	NS	3.785	4>2=1	4.348	4>3=2=1			

^{1 -} DTAs actual 10-day performance

^{2 =} DTAs preferred 10-day performance
3 = DTAs expected 10-day performance
4 = Dentists expectations for DTAs 10-day performance

TABLE 16 (continued)

	PHASI		PHASI NO FEI	E II EDBACK	PHASE II FEEDBACK			
Indirect Patient Care	F Ratio	Diff Scheffe	F Ratio	Diff Scheffe	F Ratio	Diff Scheffe		
1	12.737	4=3>2=1	5.378	3=1>2	6.325	4>2		
2	5.108	4>2=1	2.462	NS	6.536	473=2=1		
3	8.926	2>3; 4>1	4.519	4>3=1	2.629	NS		
4	13.185	4=2>3=1	2.578	NS	4.225	4>1		
5	4.788	NS	1.294	NS	0.591	NS		
6	9.787	4>3=2=1	1.208	NS	2.691	NS		
7	16.549	4=3=2>1	6.469	4=3=2>1	2.685	4>1		
8	5.546	4>3=1	0.832	NS	3.294	4>3=1		
9	1.632	NS ·	0.534	NS	2.790	4>1		
10	8.190	4>3=1	1.240	NS	6.866	4>3=2=1		
11	1.726	NS	0.389	NS	0.619	NS		
12	1.146	NS	0.712	NS	0.270	NS		
Patients	98.199	4>3=2>1	26.775	4>3=2>1	12.507	4>3=1=2>1		

TABLE 16 (continued)

(stav	PHASI		PHASI NO FEI	E II EDBACK	PHASE II FEEDBACK			
Other	F Ratio	Diff Scheffe	F Ratio	Diff Scheffe	F Ratio	Diff Scheffe		
ı	8.499	4=2>1	5.180	4=3>1	2.555	NS		
2	14.163	4>1; 2>3	3.544	4>1	3.887	4>1		
anagramani k	9.473	2>4-3=1	3.731	2>1	4.388	NS		
ai-8	16.202	273; 471	2.639	NS	6.728	4=2>1		
5	15.162	4>3; 2>1	10.267	4>2=3=1 2>1	12.809	4>2>1		
i	13.663	2>4=3=1	14.347	2>4=3=1	6.063	4=2>1		
03.	5.387	2>3=1	1.653	NS	5.551	4>3=1		
3	16.065	4=2>3=1	7.607	471	4.287	4>1		
LENGE	9.033	4=2>1	2.110	NS	6.997	4=2>1		
10	10.463	4=2>1	2.915	NS	7.768	4>1		
11	10.842	4>3; 271	4.949	4=2>1	5.877	4>1		
12	1.470	NS	0.936	NS	0.917	NS		
13	9.053	2>3=1	10.536	2>4=3=1	5.606	2>3=1		
14	18.630	4>3=2; 2>1	11.005	4>3=2=1	14.564	4>3=2=1		
15	24.849	2>3; 4>1	19.058	4=2>3=1	10.585	4=271		
16	17.177	2>4=3=1	12.512	4=2>3=1	4.884	2>1		
17	2.059	NS	0.734	NS	2.717	NS		
18	11.291	2>3=1	2,739	NS	3.450	2>1		
19	7.481	2>3=1	3.081	NS	4.698	NS		
20	9.845	2>3=1	5.338	4>3=1	2,820	NS		

TABLE 17
Selection of Studies Using JDI Satisfaction (mean levels)

STUDY	' WORK	SUPERVISOR	CO-WRKRS	PAY	PROMOTIONS
Imparato (1972) male & female VA hospital employees	34	40	38-41	8	8-10
Hulin (1966) female clerical workers	35	41	41	15	10
Hulin (1968) female clerical workers	35-36	40-43	41-43	15	10-24
Sarata (1974) male & female employees serving retarded	34-39	39-44	39-45	15-16	10-13
	E30.ET	er gesta			

APPENDIX A

Health Care Studies Division DTA Worksheet

Below are a series of	tasks. How frequently	did you perform each	task today? Please try	to be as

Below are a series of tasks. How frequently did you perform each task today? Please try to be as accurate as possible in entering the total number of times you did the task. If you feel that using a tally count during the day would help, please use it.

RES	FORATIVE PROCEDU	JRES			TOT		PR	EVEN	TIVE	PROC	EDUR	ES		т	TOTA	
1.	Place rubber dam						1.	Pro	phyla	cis						
2.	Place amalgam restora	ation					2.	Top	oical fi	uoride	applic	cation				
3.	Place silicate restorati	on					3:	Sca	ling							
4.	Place composite resto	ration					4.		l disea		trol (p	atient				
5.	Place resin restoration	1				<u> </u>	5.	Pit	and fi	ssure s	caling	technic	oue			
6.	Polish restoration															
7.	Place intermediate ba	se					OT	HED I	PROCI	EDUR	ES .			т	TOTA	
8.	Place pulp capping ma	aterial					1.							•	111123/1	J/11
9.	Place matrix retainer											tal pac	.K			
10.	Place sedative/tempor	ary fil	ling -				2.		rideme		criodo	ntal				
11.	Place temporary crow	'n					3.	AN	UG m	anagen	nent					
							4.	Irri	gate/di	y root	canal					
	RECT PATIENT CAR CEDURES	E			TOT TIMES		5.	Med	liacte	root c	anal					
1.	Dental assistant duties	s					6.	Plac	c/rem	ove ro	ot can	al seal				
2.	Sterilization technique	es ·					7.		l surge		- and	post-op	erative			
3.	Prescription writing						8.	Sut	ure rei	noval						•
4.	Pour and trim study	model					9.	Mar	ageme	ent of	dry so			7		
5.	Identify and chart ex	isting	restora	tions			10.			•	impre					
6.	Appointment schedul	ing					11.	-				ng mat	erials			
7.	Obtain patient's denta	al/med	lical hi	story			12.	-				citative				_
8.	Expose, process, and radiographs	moun	t peria	pical		/		mea	sures							
							13.	Tes	for t	ooth v	itality					
9.	Expose, process, and radiographs	moun	t Ditex	ving .			14.	Obt	ain pa	tient's	pulse					_
10.	Expose, process, and radiographs	moun	t pano	ramic			15.					pressu	-			_
						-	16.	Obt	am pa	tient s	tempe	rature				_
	ATIENT NUMBER	1	2	3	4	5	6	7	8	. 9	10	11	12	13	14	15
	e you assisted by a nairside assistant															
	. FULL TIME															
	b. PART TIME															

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Please enter today's date_

Consider the following list of tasks. Estimate the total number of times you expect to perform each of these tasks during the following 10 days. Write that number in the space for "expect" next to each task. Now consider how frequently you would prefer to perform each of the tasks during the same 10 working days. Write this total in the space for "prefer." Please make one entry in both the "expect" and in the "prefer" columns for each task as would be performed over the next ten consecutive working days.

	TASKS EXPECT PREFER		TASKS EXPECT PREFEI
١.	Dental assistant duties	23.	Place intermediate base
2	Sterilization techniques	24.	Place pulp capping material
3.	Place/remove periodontal pack	25.	Place matrix retainer
1.	Post-operative periodontal debridement	26.	Pit and fissure sealing technique
i .	Prophylaxis	27.	Place sedative/temporary filling
	Topical fluoride application	28.	Place temporary crown
	Scaling	29.	Record primary impression
	ANUG management	30.	Pour and trim study model
	Oral disease control (patient education)	31. 32.	Place tissue conditioning materials Administer basic resuscitative
D.	Place rubber dam		measures
١.	Irrigate/dry root canal	33.	Identify and chart existing restorations
2.	Medicate root canal	34.	Appointment scheduling
3.	Place/remove root canal seal	35.	Test for tooth vitality
1.	Prescription writing .	36.	Obtain patient's pulse
5.	Oral surgery pre- and post- operative instructions	37.	Obtain patient's blood pressure
5.	Suture removal	38.	Obtain patient's temperature
1.	Management of dry socket	39.	Obtain patient's dental/medical history
8.	Place amalgam restoration	40.	Expose, process, and mount
9.	Place silicate restoration		periapical radiographs
0.	Place composite restoration	41.	Expose, process, and mount bitewing radiographs
١.	Place resin restoration	42.	Expose, process, and mount
2.	Polish restoration		panoramic radiographs

DESCRIPTION OF THE WORK, PAY, PROMOTIONS, CO-WORKERS, AND TEAM DENTIST ON YOUR JOB

Below are five groups of items. Each group represents some aspect of your present job. We would like you to indicate your feelings about these aspects by circling "Y" (yes) if the item is descriptive of your present job. "N" (no) if it is not descriptive and "?" if you can't decide.

WORK		CO-MORKERS (other than team d	entist)
Fascinating	Y. N ?	Stimulating Posing	Y'N ?
Routine	Y N ?	Stimulating Boring Ambitious Stupid Responsible Fast Intelligent	YN?
Satisfying	Y N ?	Ambitious .	YN?
Good	YN?	Stupid	YN?
Creative	YN?	Responsible	YN?
Respected	YN?	Fast	YN?
Hot	Y H ?	Intelligent	YN?
Pleasant	YN?	Easy to make enemies	YN?
Useful	YN?	Talk too much	YN?
Tiresome	YN?	Smart	YN?
Healthful	YN?	Smart Lazy Unpleasant	YN?
	YN?	Unpleasant	YN?
On your feet	YN?	No privacy	YN?
Challenging On your feet Frustrating	YN?		
Simple	YN?	Active Narrow interests	Y 1 7
Endless	YN?	Loyal	YH?
Gives sense of accomplishment	Y N. ?	Hard to meet	YN?
Boring	YN?	· Site of the same of	
TEAM DENTIST AS SUPERVI	ISFP	PAY	
Asks my advice Hard to please Impolite Praises good work Tactful	YNY	Income adequate for	Y. N. 3
Hard to please	Y N ?	normal expenses	.i. ii
Impolite	YN?	Barely live on income	YN?
Praises good work	Y N ?		
Tactful	YH?	Bad Income provides luxuries Insecure	YN?
Influential	Y N 2	Insecure	Y N ?
Up-to-date Doesn't supervise enough Quick-tempered	YN?	Less than I deserve Highly paid Underpaid	YN?
Doesn't supervise enough .	Y N ?	Highly paid	YN?
Ouick-tempered	Y N ?	Underpaid	YN?
lells me where I stand	IN		
Annoving	YN?		
Stubborn	YN?	PROMOTIONS	
Annoying Stubborn Knows job well Bad	YN?	PROMOTIONS Good Opportunity for	YN?
Bad	YN?	advancement	-t , h
Intelligent	YN?	Opportunity somewhat limited	YN?
Leaves me on my own	YN?	Promotion on ability	Y N ?
Around when needed	YN?	Promotion on ability Dead-end-job	YN?
Lazy	YN?	Good chance for promotion	YN?
		Unfair promotion policy Infrequent promotions Regular promotions	Y N ?
		Infrequent promotions	Y N ?
We appreciate your cooperation	n.	Regular promotions	YN?
,, , ,		Fairly good chance for	YNT
		promotiton .	
		Fr dure a rou	r

Have you worked with a DTA before? circle one

Yes No If yes, how long (months)

You have been selected to be the leader of a team employing fully trained DTAs. Please rate the following list of tasks in terms of how frequently you expect a DTA to perform each task over a ten day calendar period (work days). For example, the task "pencil sharpening" would be expected to be performed very frequently (VF) and an average of 50 times over a ten day period (five times/day x 10 work days).

S = seldom or never

I = infrequently
F = frequently
VF = very frequently
NA = not applicable
TOT = total number of times expected
to be performed over 10 days

TASKS	S	1	F	A1.	NA	TOT		TASKS	S	1	F	VF	NA	T
(example) Pencil sharpening	L	L		L.,	_	1				1	1			1.
Dental assistant duties				X		130	23.	Place intermediate base		Ц	1	X		16
Sterilization techniques			X			20	24.	Place pulp capping material	X	Ц				1
Place/remove periodontal	X					2	25.	Place matrix retainer			-	X		9
Post-operative periodontal	X						~26 .	Pit and fissure scaling technique	X					-
debridement	1	V	-		-	14	27.	Place sedative/temporary filling		X				16
Prophylaxis	-	X	-		-	15	28.	Place temporary crown	K					O
Topical fluoride application	-	1	-	_	-	13	29.	Record primary impression	7					1
Scaling	1	X	_		_	A	30.	Pour and trim study model	Y					1
ANUG management	Δ	-	_		_		31.	Place tissue conditioning						1
Oral disease control (patient education)		X				1		materials	X					1
Place rubber dam	X					30	32.	Administer basic resuscitative measures	X					L
Irrigate/dry root canal	X					0	33.	Identify and chart existing			X			2
Medicate root canal	X				_	0		restorations	-		_	_	-	۲
Place/remove root canal seal						0	34.	Appointment scheduling	1	-	H	-	-	+
Prescription writing		À				0	35.	Test for tooth vitality	X	-	-	_	-	╁
Oral surgery pre- and post-operative instructions		X				3	36. 37.	Obtain patient's pulse Obtain patient's blood	1	-	-		-	+
Suture removal	X					3	31.	biesznie	X		_	_	_	1
Management of dry socket	Γ			¥		D	38.	Obtain patient's temperature	X	L	1		_	L
Place amalgam restoration	X			^		XV	39.	Obtain patient's dental/ medical history		-		X	1	1
Place silicate restoration				X		:	40.	Expose, process, and mount	1	1			1	1
Place composite restoration						20		periapical radiographs	17	-	-	-	-	1
Place resin restoration	X					0	41.	Expose, process, and mount bitewing radiographs	H					16
Polish restoration			4			30	42.	Expose, process, and mount panoramic radiographs	F	1	T			1

Inc 3

SUBJECT: Instructions to DTAs

- 1. The purpose of this study is to determine how frequently you perform a variety of tasks which might be expected of DTAs. Each day for twenty consecutive work days, we would like you to record how often you do these tasks. It is recommended that you use the folder packet as a workbook in which you mark a tally next to a task after you do it. For example, if you expose and mount bitcwing radiographs, place a mark on your work sheet next to that task. At the end of the day, add up your tally count and enter that number in the TOTAL column next to each task. Then, replace the work sheet and put in the work sheet for the next day. An example is provided of how a work sheet should be filled out. At the bottom of each work sheet, enter the degree to which you were assisted for each patient.
- 2. In addition to how frequently you perform these tasks, you also will be asked to evaluate how frequently you expect and prefer to do the tasks. Several measures of different aspects of job satisfaction will also be assessed.
- 3. A biographical data sheet is included to provide information about your background. We ask that to identify yourself, you use your mother's maiden name as your code name. We request a code name because a follow-up is planned and we would like to provide you a means of remaining anonymous, yet be able to identify your responses on all survey instruments.
- 4. Please be as precise as you can. The information will be used to inform future DTAs about how they will be employed, what tasks they can expect to perform, and how frequently. You will be helping other DTAs by providing accurate information,
- 5. In general, most of the procedures are self explanatory. However, some tasks may appear to require more than one tally. If there is an overlap between categories, mark both. Exceptions would include the following: If more than one restoration is performed on a single patient, place a tally for each restoration. For polishing restorations, record one tally per patient regardless of the number done. Do not indicate that restorations were polished if the procedure was accomplished in conjunction with a prophylaxis. Try to choose the single task category which best describes what you have done. Dental assistant duties are those that can be normally accomplished by a chair side assistant without DTA training. Oral disease control (oral hygiene instructions) is recorded only when formally presented in a manner consistent with the team's established patient education program.
- 6. Thank you for your cooperation.

OGRAPHICAL DATA SHEET
oday's date
ode Name (use mother's maiden name)
nk or rating
ge on last birthday (in years)
arital status (circle one) single married divorced
ex (circle one) female male
ste of completion of DTA training (expected date if training is not completed)
ow many years of civilian education have you completed? (For example, if you graduated from high school write 12)

APPENDIX B

HEALTH CARE STUDIES DIVISION DTA WORKSHEET

CLINIC HAME/NUMBERTODAY'S DATE		_	_											
				TOTAL	The same								,	TOTAL IMES/DAY
RESTORATIVE TASKS			111	MES/L	JAT								•	THEST ON
. Place rubber dam						9. Ex	riapic	al rud	s. or an					
. Place amalgam restoration						10. Ex	pose.	proces	s. or m	ount				
. Place resin restoration		-				250							110011	
. Polish restoration						(4	cting	as NCO)(c)					
6. Polish restoration						12. DT	A cord	instor	duties					
. Place pulp capping material						1A 01H	ER TAS	KS				,		
Place matrix retainer or				Tell P										
calluloid strip.							2 70 1				-			
. Place sedative/temporary filling											erials_			
D. Construct/place temporary crown			-						select					
1. Insert permanent bridge						5. 10	ke pri	mary f	mpressio	n				
2. Adjust restoration occlusion						6. Pl	ace/re	move p	er fodont	al pack				
PREVENTIVE TASKS									periodo	ntal				
I. Prophylaxis							bridem	-						
t. Topical fluoride application														
). Hand scaling														
i. Oral disease control(Patient - education)														
. Pit and fissure sealing technique_									oot cana	-				
5. Cavitron							pliance		e orthoc	·				
. Community & military prevention (Ph.	se 1)					13. Co	nstruct	/place	e tempor	ary spl	ints			
II INDIRECT PATIENT CARE TASKS						14. Pr	e-and (ost-o	perative ndodonti	Instru	ctions			
. Dental assistant duties						or	prosti	netics.						
2. Sterflization techniques						15. Su	ture re	emova 1						
3. Prescription writing						16. Me	nageme	it of	dry sock	et				<u>_</u>
1. Pour and trim study model									tc resus		•			
6. Examine/chart existing			•											
restorations														
. Appointment scheduling														
. Review patients dental/medical histo	ory								's tempo			attoned		
B. Expose, process, or mount bitewing radiographs						E!	st any ove in	the s	pace bel	OW.	HOE PL			
													-	
		_										•	T	
PATIENT NUMBER	1 2	3	4	5	6	7	8	9	10	11	13	14	15	
Enter if you were assisted by a chairside assistant												, not		
a. Full Time														an der i
b. Part Time	1													
c. Not At All	1	1					1							

AHS Form 84 (OT) 9 September 1974

DTA'S EXPECTATION & REALITIES

Consider the following list of tasks. Estimate the total number of times you expect to perform each of these tasks during the following 10 days. Write that number in the space for "expect" next to each task. Now consider how frequently you would prefer to perform each of the tasks during the same 10 working days. Write this total in the space for "prefer". Please make one entry in both the "expect" and "prefer" columns for each task as would be performed over the next ten consecutive working days.

CLINIC NAME/NUMBERTODAY'S DATE	
1 RESTORATIVE TASKS EXPECT PREFE	R EXPECT PREFER
1. Place rubber dam	9. Expose, process, or mount
2. Place amalgam restoration	periapical radiographs
3. Place composite restoration	10. Expose, process, or mount panoramic radiographs
4. Place resin restoration	11. Administrative duties
5. Polish restoration	(acting as NCOIC)
6. Place intermediate base	12. DTA cordinator duties
7. Place pulp capping material	IV OTHER TASKS
8. Place matrix retainer or celluloid strip	1. AluG management 2. Pack gingival retraction cord
9. Place sedative/temporary filling	3. Place tissue conditioning materials
10. Construct/place temporary crown	4. Prosthodontic- select shade/
11. Insert permanent bridge	shape of teeth
12. Adjust restoration occlusion	5. Take primary impression
11 PREVENTIVE TASKS	6. Place/remove periodontal pack
1. Prophylaxis	7. Post-operative periodontal debridement
2. Topical fluoride application	8. Test for tooth vitality
3. Hand scaling	9. Irrigate/dry root canal
4. Oral disease control(Patient education)	10. Medicate root canal
5. Pit and fissure sealing technique	11. Place/remove root canal scal
6. Cavitron	12. Construct/place orthodontic appliances
7. Community & military prevention (Phase I)	13. Construct/place temporary splints
111 INDIRECT PATIENT CARE TASKS	14. Pre-and post-operative instructions
1. Dental essistant duties	for surgery, endodontics, periodontics, or prosthetics
2. Sterilization techniques	15. Suture renoval
3. Prescription writing	16. Management of dry socket
4. Pour and trim study model	17. Administer basic resuscitative
5. Examine/chert existing restorations	18. Obtain patient's pulse
6. Appointment scheduling	19. Obtain patient's blood pressure
7. Review patients dental/modical history	20. Obtain patient's temperature
8. Expose, process, or mount biteving radiographs	List any other tasks that are not mentioned above in the space below.
days. Number of days you expect to work, days Do you expect any changes in the next 10 w	, prefer to see over the next 10 working prefer to work over the next 10 working working days like rotating thru different sistants, other DTAs going on leave, holidays,
Patients are received mostly from: Schedul	ed appointments, Sick call, Other (Circle one)

A

DTA'S NAME

SATISFACTION SCALE

DESCRIPTION OF THE WORK, PAY, PROMOTIONS, CO-WORKERS, AND TEAM DENTIST ON YOUR JOB

Below are five groups of items. Each group represents some aspect of your present job. We would like you to indicate your feelings about these aspects by circling "Y" (yes) if the item is descriptive of your present job. "N" (no) if it is not descriptive and "?" if you can't decide.

WORK		CO-WORKERS (other than team	dentist)
Fascinating	YN?	Stimulating	Y N ?
Routine	Y N ?	Boring	Y N ?
Satisfying	Y N ?	Slow	
Boring	YN?	Ambitious	Y N ? Y N ?
Good	Y N ?	Stupid	Y N ?
Creative	Y N ?	Responsible	Y. N ?
Respected	Y N ?	Fast	YN?
Hot	Y N ?	Intelligent	Y N ?
Pleasant	Y N ?	Easy to make enemies	Y N ?
Useful	Y N ?	Talk too much	Y N ?
Tiresome	Y N ?	Smart	Y N ?
Healthful	Y N ?	Lazy	Y N ?
Challenging	Y N ?	Unpleasant	Y N ?
On your feet	Y N ?	No privacy	Y N ?
Frustrating	YN?	Active	Y N ?
Simple	YN?	Narrow interests	Y N ?
Endless	Y N ?	Loyal	Y N ?
Gives sense of accomplishment	YN?	Hard to meet	Y N ?
arves sense or accomprishment			
TEAM DENTIST AS SUPERVISOR		PAY	
Asks my advice	Y N ?	Income adequate for	Y N ?
Hard to please	Y N ?	normal expenses	
Impolite	YN?	Satisfactory profit sharing	YN?
Praises good work	Y N ?	Barely live on income	Y N ?
Tactful	Y N ?	Bad	Y N ?
Influential	YN?	Income provides luxuries	YN?
Up-to-date	YN?	Insecure	Y N ?
Doesn't supervise enough	Y N ?	Less than I deserve	Y N ?
Quick-tempered	Y N ?	Highly paid	Y N ?
Tells me where I stand	Y N ?	Underpaid	Y N ?
Annoying	Y N ?	PROMOTIONS	
Stubborn	Y N ?	PROMOTIONS	
Knows job well	Y N ?	Good opportunity for	Y N ?
Bad	Y N ?	advancement	
Intelligent	Y N ?	Opportunity somewhat limited	Y N ?
Leaves me on my own	Y N ?	Promotion on ability	Y N ?
Around when needed	Y N ?	Dead-end-job	Y N ?
Lazy	Y N ?	Good chance for promotion	Y N ?
		Unfair promotion policy	Y N ?
We appreciate your cooperation		Unfair promotion policy Infrequent promotions	Y N ?
app. co. acc Jour cooperation		Regular promotions Fairly good chance for	Y N ? Y N ? Y N ?
		Fairly good chance for	YN?
		promotion	

DENTIST EXPECTATION SHEET YEARS SINCE GRADUATION RANK

You have been selected to be the leader of a team employing fully trained DTAs. Please rate the following list of tasks in terms of how frequently you expect a DTA to perform each task over a ten day work period. For example, the task "place rubber dam" would be expected to be performed very frequently (VF) and an average of 50 times over a ten day period (five times/day X 10 work days).

S = seldom or never

F = frequently

VF = very frequently
NA = not applicable
TOT = total number of times expected to be performed over 10 days

. Place rubber dam					1	9. Expose, process, or mount
. Place amalgam restoration	T					pertapical radiographs
. Place composite restoration						10. Expose, process, or mount panoramic radiographs
I. Place resin restoration	1	L			_	11. Administrative duties
. Polish restoration	1		L		_	(acting as NCOIC)
. Place intermediate base	1	L	L	_	-	12. DTA cordinator duties
. Place pulp capping material	1	_		_	-	1. AllUG management
. Place matrix retainer or celluloid strip						2. Pack gingival retraction cord
. Place sedative/temporary filling						3. Place tissue conditioning materials
). Construct/place temporary crown					_	4. Prosthodontic- select shade/
. Insert permanent bridge	1	L	L		_	shape of treth
. Adjust restoration occlusion	1				_	5. Take primary impression 6. Place/remove periodontal pack
PREVENTIVE TASKS						7. Post-operative periodontal
. Prophylaxis	1			_	_	debridement debridement
2. Topical fluoride application	_	L	L	_	_	8. Test for tooth vitality
3. Hand scaling	+	_		_	-	9. Irrigate/dry root canal
I. Oral disease control(Patient - education)						10. Hedicate root canal
5. Pit and fissure sealing technique		L	Ц		_	11. Place/remove root canal seal
5. Cavitron	_		Ц		_	12. Construct/place orthodontic appliances
7. Community & military prevention (Phase	1)	L				13. Construct/place temporary splints
II INDIRECT PATIENT CARE TASKS						14. Pre-and post-operative instructions for surgery, endodontics, periodontics,
1. Dental assistant duties	_	L				or prosthetics
2. Sterilization techniques	1	L	Ц		_	15. Suture removal
3. Prescription writing	1	L	Ц		_	16. Management of dry socket
1. Pour end trim study model	-	L			_	17. Administer basic resuscitative
5. Examine/chart existing restorations						18. Obtain patient's pulse
6. Appointment scheduling						19. Obtain patient's blood pressure
7. Review patients dental/medical history_						20. Obtain patient's temperature
l. Expose. process. or mount bitching radiographs						List any other tasks that are not mentioned above in the space below.

How many patients would you expect to see in a 10 day work period_

Alis Form 85 (OT) 11 September 1974 44

SUBJECT: Instructions to DTAs

- 1. Your task is to orient a new DTA at your clinic. To assist you in this task, the following study is proposed. The purpose of this study is to determine how frequently you perform a variety of tasks which might be expected of DTAs. It is recommended that you use the folder packet as a workbook to retain the worksheet that you fill out each day. For example, at the end of each work day complete the worksheet on the right side of the folder and transfer it to the left side. This will leave a new blank worksheet on the right side of the folder for the following days work.
- 2. In filling out the worksheet each day, room has been left next to each task for you to place tally marks, if you desire, to keep track of the tasks performed. For example, if you "expose, process or mount biteving radiographs," place a mark on your worksheet next to that task. At the end of the day, add up your tally count and enter the total number for that task immediately to the right of the tally marks under the total column. At the bottom of each work sheet, enter the extent to which you were assisted for each patient. If you work only part of a day, please write a note to that effect in the assistant section (i.e. 1/2, 3/4).
- 3. In general, most of the tasks are self explanatory. However, some tasks may appear to require more than one tally. If there is an overlap between categories, mark both. Exceptions would include the following:
 - a. Restorative Tasks:
 - If more than one restoration is performed on a single patient, place a tally for <u>each</u> restoration.
 - For polishing restorations, record one tally per patient regardless of the number done. Do not indicate that restorations were polished if the procedure was accomplished in conjunction with a prophylaxis.
 - b. Preventive Tasks: Oral disease control (oral hygiene instructions) is recorded only when formally presented in a manner consistent with the team's established patient education program.
 - c. Indirect Patient Care Tasks:
 - Dental assistant duties are those that can be accomplished by a chair side assistant without DTA training.
 - 2) Sterilization should not be included as a dental assistant duty.
- 4. In addition to how frequently you perform these tasks, you also will be asked to evaluate how frequently you expect and prefer to do the tasks. Several measures of different aspects of job satisfaction will also be assessed.
- 5. A biographical data sheet is included to provide information about your background. We ask you to identify yourself; we request this because a follow-up survey is planned.
- 6. Please be as precise as you can. The information will be used to inform future DTAs about how they will be employed, what tasks they can expect to perform, and how frequently. You will be helping other DTAs by providing accurate information about what you do as a DTA.
- 7. Thank you for your cooperation.

BIOGRAPHICAL DATA SHEET

Today's date		si dran dhea sa	
Rank or rating	ST the popular age to be		
Age on last birthday (in years) _	reason and the estimate		
Marital status (circle one) si	ngle married	divorced	separated
Type and duration of work experie	nce:		
years worked as a:	(YEARS)		
dental assistant: school trained: military			
civilian			
OJT			
hygienist: school trained: military	who could not be a folding. The first one bed out the		
civilian			
OJT	No. 2017 of the Consense States		
DTA	er <u>Andreas e</u> er e		
prosthetics			
other			
Date of completion of DTA trainin (expected date if training is	g not completed)		

SUBJECT: Instructions for Administration of Study Materials

- 1. The purpose of the study is to determine attitudes of team dentists and dental therapy assistants (DTAs), how their attitudes may change (as evaluated by a three month follow-up), and whether the attitudes (preferences and expectations) are related to job satisfaction and frequency of performance of tasks. The results are expected to provide assistance in evaluating the present Program of Instruction for the DTA course. The study has been approved by the Health Services Command Study Advisory Committee.
- 2. The survey instruments are in individual packets which will be given to each DTA and dentist working with the DTAs individually. Inclosure 1 contains a copy of the survey instruments (the packet for each DTA). It contains a biographical data sheet, three job satisfaction scales, three attitude scales (expectations and preferences), and twenty work tally sheets. The study will cover 21 consecutive work days, Inclosure 2 gives a recommended timetable for the study. The sequence of events is as follows:
- a. On Friday, 4 October give all DTAs their individual packets. On the same Friday afternoon have the DTAs fill out: the biographical data scale, a job satisfaction scale, and an attitude scale surveying their expectations and preferences for the next ten consecutive work days.
- b. On Monday, 7 October of the second week each dentist working with the DTAs should be given the sheet for recording their expectations for the DTAs performances (see inclosure 3).
- c. Also on Monday, 7 October and continuing for the next two weeks (ten work days), each DTA is to fill out on each day a worksheet describing the frequency of performance of the list of tasks. A running tally is recommended, that is, each time a task is performed, the DTA should make a mark beside that task on the worksheet. The total number of tallies per task should be recorded at the end of each day on the worksheet. Then the worksheet should be replaced by a new one for the next day.
- d. On Friday, 18 October of the third week, after the DTAs have completed their daily tally sheet, each DTA will take a satisfaction scale and an attitude scale. The attitude scale is to measure their expectations for the next two weeks.
- e. On Monday, 21 October through 1 November, administer to DTAs the performance worksheets. Also on 1 November, administer to DTAs the satisfaction scale and the attitude scale (expectations and preferences).

SUBJECT: Instructions for Administration of Study Materials

- 3. The results obtained will be as follows:
 - a. Dentist's expectations.
 - b. For each DTA
 - (1) Three Satisfaction Scales
 - (2) Three Attitude Scales
 - (3) One Biographical Data Sheet
 - (4) Twenty Work Tally Sheets
- 4. Analysis will be made of the frequency of performance of tasks by DTAs, the preferences and expectations of the DTAs, the DTA's job satisfaction, and biographical information. The relationship between the DTA's performance and the dentist's expectations will also be examined.
- 5. We appreciate your cooperation.

SUBJECT: Timetable for DTA Study

FIRST WEEK -

4 October Friday

Receive packets Administer to DTAs

- 1. Attitude scale (expectations and preferences)
- 2. Satisfaction scale
- 3. Biographical data scale

SECOND WEEK -

7 October Monday Administer expectations sheet to dentists working with DTAs
Monday thru
Friday Administer to DTAs actual performance worksheets (one/day)

THIRD WEEK -

14 October Monday thru

Thursday Administer to DTAs actual performance worksheets (one/day)
Friday Administer to DTAs

- 1. Actual performance worksheet
- 2. Satisfaction scale
- 3. Attitude scale (expectations and preferences)

FOURTH WEEK -

21 October Monday thru Friday Administer to DTAs actual performance worksheets (one/day)

FIFTH WEEK -

28 October Monday thru

Thursday Administer to DTAs actual performance worksheets (one/day)

1 November Friday Administer to DTAs

- 1. Actual Performance worksheet
- 2. Satisfaction scale
- 3. Attitude scale (expectations and preferences)

APPENDIX C

HSPA-D 5 March 1975

SUBJECT: Phase I Study: Attitudes of Team Dentists and DTAs

THRU: Deputy for Deutal Activities
US Army MEDDAC
Fort Belvoir, VA 22060

TO: Resources Training Officer
Dental Activity
US Army MEDDAC
Fort Belvoir, VA 22060

- 1. The material from the Phase I survey of the DTAs and dentists has been summarized; inclosed as Incl 1 is the survey at your post. For each task surveyed the average (X), standard deviation (S.D.) and sample size (N) are included for the DTAs' actual ten-day performance, preferences, expectations and the dentists' expectation. In comparing the distribution of the averages and standard deviation for each task, one should consider the degree of overlap between the means as a function of the standard deviation (plus or minus around the average).
- 2. This summary is provided for informational purposes. Similar information will be provided following the Phase II survey. Sufficient copies of the survey are included for each DTA and dentists working with the DTAs. A perusal of the summary sheets will reveal the tasks where the distributions converge and when they are far apart.
- 3. Your cooperation in Phase I was excellent and is greatly appreciated. Please address questions on content of the survey or for clarification to:

Dr. David Mangelsdorft AUTOVON 471~4541/3331/3116 Health Care Studies Division Academy of Health Sciences, US Army Fort Sam Houston, TX 78234

1 Incl

JOE L. CHEATHAM Colonel, DC Preventive Dentistry Officer

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Identical letter sent to Bragg, Carson, Dix, B. Harrison, Huachuca, Knox Lee, Meade, Ft Ord, Rucker, Leonard Wood.

APPENDIX D

HEALTH CARE STUDIES DIVISION DTA WORKSHEET

Below are a series of tasks. How frequently did you perform each task today? Please try to be as accurate as possible in entering the total number of times you did the task. If you feel that using a tally count during the day would help please use it.

DTAS NAME______

C	LINIC NAME/NUMBER				TOD	AYS	DAI	E					
1		TIMES		9.	perias	oical ra	diogra						TOTAL TIMES/DA
2.	Place amalgam restoration			10.	Expos	e, pro	cess, o	r mount	1				
).	Mace composite restoration			11.	Admi	nistrat	ive du	ies					
						-	COIC)						
	Polish restoration			12.	DTA	coordi	nator (luties _				-	
	Place intermediate base			IV	OTHE	RTA	SKS						
	Place pulp capping material			1.	ANU	5 man	age mer	ıt					
	Place matrix retain ey celluloid strip			2.									
	celluloid strip			3.	Place	tissue	condit	ioning r	naterial				
	Mace sedative/temporary filling			4.	Prosti	odon	ic- sele	ct shad	e/shape		•		
0.	Construct/place temporary crown Insert permanent bridge		,		of tee	1000							Define a side
1.	Adjust restoration occlusion			6.									
2.	Adjust restoration occusion			7.									
				8.									
	PREVENTIVE TASKS			9.						1			
	Prophylexis Topical fluoride application			10.			root ci						(MELANA)
	Hand scaling			11.									
	Oral disease control (Patient												wij lane.
	Pit and fissure sealing technique												wash pin
	Cavitron			,	for su	gery,	endod	ontics,	truction periodo	tics,			
	Community & military prevention (Phase I)			15.	Suture								
1	INDIRECT PATIENT CARE TASES												
•	Dental assistant ducies												
•	Sterifization techniques												
	Prescription writing					-			2				
•	Pour and trim study model												
•	Examine/chart existing restorations			•				that ar	e not m	entione	d		
•	Appointment scheduling												
•	Review patients dental/medical history			•									
	Expose, process, or mount bitewing radiographs				-								-
	o what extent were you assisted by a chairside assi	stant 4	on eac	h pa	tient?	8	9	10	11	12	-13	14	TOTAL
۲	And the most of the second of	1	-		<u> </u>	·	-		-	-	1	-	
-	a. Full-time	-			-	_			-		-		
Ĺ	b. Part-time				_						-		
	c. Not at all												
	d. Broken Appointment												

AHS Form 96 (OT) 21 Jan 1975

DTAs EXPECTATIONS & PREFERENCES

Consider the following list of tasks. Estimate the total number of times you expect to perform each of these tasks during the following 10 days. Write that number in the space for 'expect' next to each task. Now consider how frequently you would prefer to perform each of the tasks during the same 10 working days. Write this total in the space for 'prefer.' Please make one entry in both the 'expect' and 'prefer' columns for each task as would be performed over the next 10 consecutive working days.

DTAs NAME

C	LINIC NAME/NUMBER		TODAY'S DATE
	RESTORATION TASKS EXPECT PREFER	9.	EXPECT PREFER
	Place rubber dum		Expose, process, or mount perlapical radiographs
	Place amalgam restoration	10.	Expose, process, or mount penoramic radiographs
	Place composite restoration	- 11.	
	Place resin restoration		(acting as NCOIL)
	Polish restoration	12.	DTA coordinator duties
	Place Intermediate base	- 17	OTHER TASKS
	Place pulp capping material	- 1.	ANUG management
	Place matrix retain es celluloid strip	2.	Pack gingival retraction cord
	Place sedative/temporary filling	3.	Place tissue conditioning materials
0.	Construct/place temporary crown	/4.	Prosthodontic- select shade/shape of teeth
1.		- s.	Take primary impression
2.		- 6.	Place/remove periodontal pack
		7.	Post-operative periodontal debridement
	PREVENTIVE TASKS		Test for tooth vitality
	Prophylaxis	- 9.	Irrigate/dry root canal
	Topical fluoride application	- 10.	
	Hand scaling	- 11.	
	Oral disease control (Patient	12.	
	education)	13.	
	Pit and flasure sealing technique	14.	Pre- and post-operative instructions for surgery, endodontics, periodontics,
	Control A - History convention		for surgery, endodontics, periodontics, or prosthetics
	Community & military prevention (Phase I)	- 15.	Suture removal
	INDIRECT PATIENT CARE TASKS	16.	Management of dry socket
	Dental essistant duties	17.	Administer basic resuscitative measures
	Sterilization techniques	18.	Obtain patient's pulse
	Prescription writing	19.	Obtain patient's blood pressure
	Pour and trim study model	20.	Obtain patient's temperature
	Examine/chart existing restorations		List any other tests that are not mentioned
	Appointment scheduling		above in the space below.
	Review patients dental/medical history	_	
	Expose, process, or mount bitewing radiographs	-	
1	iumber of patients you expect to see, prefer		
. 1	fumber of days you expect to work, prefer to	o wo	orkover the next 10 working days.
1	Do you expect any changes in the next 10 working days like resistants, other DTAs going on leave, holidays, if yes what cha	otati	ng through different clinics, changing dentists, having new
	atients are received mostly from: Scheduled Appointments, S		
	AHS Form 97 (OT) 21 Jan 1975		

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CAT	ICE	CTION	SCALE	ï

DATE

DESCRIPTION OF THE WORK, PAY, PROMOTIONS. CO-WURKERS, AND TEAM DENTIST ON YOUR JOB

Below are five groups of items. Each group represents some aspect of your present job. We would like you to indicate your feelings about these aspects by circling "Y" (yes) if the item is descriptive of your present job. "N" (no) if it is not descriptive and "?" if you can't decide.

WORK					CO-WORKERS (other than team of	dent	15	t)	
Fascinating	Y		ı	?	Stimulating	Y	N	2	
Routine	Y	1	1	?	Boring	Y	N	?	
Satisfying	. Y	N	1	?	Slow			?	
Boring	Y	N	1	?	Ambitious	Y	N	7	
Good	Y	N	1	?	Stup1d .	Y	N	?	
Creative .	Y	N	1	?	Respons1ble		N		
Respected	Y	N		?	Fast	Y	N		
Hot	Y	N		? .	Intelligent	. Y	N	?	
Pleasant	Y	N	1	?	Easy to make enemies	77.0		?	
Useful	Y	N	1	?	Talk too much	Y	N	?	
Tiresome	Y	N	1	?	Smart			3	
Healthful	Y	N		?	Lazy	Y	N	?	
Challenging	Y	N		?	Unpleasant	Y	N	?	
On your feet	Y	N		?	No privacy	Y		-	
Frustrating	Y	N		?	Active	Y	N	?	
Simple	Y	N	1	?	Narrow interests			?	
Endless	Y	N	1	?	Loyal	Y		•	
Gives sense of accomplishment	Y	N		?	Hard to meet	Y	N	?	
TEAM DENTIST AS SUPERVISOR	1				PAY				
Asks my advice		N			Income adequate for	Y	N	?	
Hard to please		N			normal expenses				
Impolite		N		•	Satisfactory profit sharing		N		
Praises good work		N			Barely live on income	Y			
Tactful		N		•	Bad	Y		-	
Influential	123	N			Income provides luxuries		N	-	
Up-to-date		N		•	Insecure	Y		-	
Doesn't supervise enough		N	- 25		Less than I deserve			?	
Quick-tempered		N			Highly paid	Y		-	
Tells me where I stand	-	N			Underpaid	Y.	N	ſ	
Annoying		N			PROMOTIONS				
Stubborn		N			Good opportunity for	v		•	
Knows job well		N			advancement	Y	N	ſ	
Bad		N						•	
Intelligent		N			Opportunity somewhat limited				
Leaves me on my own		N			Promotion on ability	Y	•••	•	
Around when needed		N			Dead-end-job	Y			
Lazy	Y	N	1	•	Good chance for promotion	Y			
Va					Unfair promotion policy Infrequent promotions	Y	N	?	
We appreciate your cooperation	•				Regular promotions		N		
					Fairly good chance for		N	?	
					promotion				

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DENTIST EXPECTATION SHEET

S = seldom or never I = infrequently							VF = very frequently NA = not applicable
F = frequently	1 4	١.	1.	l vi	NA	1 тот	FOT = total number of times expected to be performed over 10 d
BESTORATION TASKS	1						9. Expose, process, or mount periapical radiographs
Place rubber dam	-	-	-	-	-		10. Expose, process, or mount
Place amalgam restoration	-	-	1	-	-		panoramic radiographs
Place composite restoration	-	1	 -	-	-		11. Administrative duties (acting as NCOIC)
Place resin restoration	-	-	\vdash	-			12. DTA coordinator duties
Polish restoration	-	-	1	-	-	-	
Place intermediate base	-	-	-	_	-	_	IV OTHER TASKS
Place pulp capping material	\vdash		-		_	_	ANUG management
Place matrix retain or/	_	_	_				2. Pack gingival retraction cord
. Place sedative/temporary filling			L				3. Place tissue conditioning materials
0. Construct/place temporary crown			_				4. Prosthodontic-select shade/shape of teeth
1. Insert permanent bridge			_				5. Take primary impression
2. Adjust restoration occlusion	_						6. Place/remove periodontal pack
							7. Post operative periduntal debridement
PREVENTIVE TASKS							8. Test for tooth vitality
Prophylexis		_	_				9. Irrigate/dry root canal
Topical fluoride application		_					10. Medicate root canal
Hand scaling		_	_	_			11. Place/remove root canal seal
Oral disease control (Patient							12. Construct/place orthodontic appliances
education)			\vdash				13. Construct/place temporary splints
Pit and fissure sealing technique	-						14. Pre- and post-operative instructions for surgery, endodinities, periodontics,
Cavitron			-				for surgery, endodontics, periodontics, or prosthetics
(Phase I)	_	-	-	-	-	-	15. Suture removal
			1.				16. Management of dry socket
INDIRECT PATIENT CARE TASKS							17. Administer basic resuscitative measures
Dental assistant duties		-					IR. Ohtain putient's pulse
Sterilization techniques							19. Obtain patient's blood pressure
Prescription writing		-	1				20. Obtain patient's temperature
Pour and trim study model	-	-	1				
Examine/chart existing restorations	-	-	1	-	-	-	List any other texts that are not mentioned above in the space below.
Appointment scheduling		-	1	-			
Review patients dental/medical history	y		†	-			
Expose, process, or mount bitewing radiographs	L	L.	J		L	L	
How many patients would you ex	pec	t to	sec	in a	O-day	work	period per DTA?
							yes, how long (months)?
							How many dental assistants?
On buck of sheet, plea							

INSTRUCTIONS TO DTAS

- 1. It is recognized that working conditions vary between clinics and may even change over time. In order to add to the study from the fall, we would appreciate your assistance in this study.
- 2. Your task is to orient a new DTA at your clinic. To assist you in this task, the following method is proposed. The purpose of this study is to determine how frequently you perform a variety of tasks which might be expected of DTAs. It is recommended that you use the folder packet as a workbook to retain the worksheet that you fill out each day. For example, at the end of each work day complete the worksheet on the right side of the folder and transfer it to the left side. This will leave a new blank worksheet on the right side of the folder for the following day.
- 3. In filling out the worksheet each day, room has been left next to each task for you to place tally marks, if you desire, to keep track of the tasks performed. For example, if you "Expose, process or mount bitewing radiographs", place a mark on your worksheet next to that task. At the end of the day, add up your tally count and enter the total number for that task immediately to the right of the tally marks under the total column. At the bottom of each work sheet, enter the extent to which you were assisted for each patient. Make an entry for each patient during the day and total the number of patients seen. If you work only part of a day, please write a note to that effect in the assistant section (i.e. 1/2, 3/4 day).
- 4. In general, most of the tasks are self explanatory. However, some tasks may appear to require more than one tally. If there is an overlap between categories, mark both. Exceptions would include the following:
 - a. Restorative Tasks:
 - If more than one restoration is performed on a single patient, place a tally for each restoration.
 - 2) For polishing restorations, record one tally per patient regardless of the number done. Do not indicate that restorations were polished if the procedure was accomplished in conjunction with a prophylaxis.
 - b. Preventive Tasks: Oral disease control (oral hygiene instructions) is recorded only when formally presented in a manner consistent with the team's established patient education program.
 - c. Indirect Patient Care Tasks:
 - Dental assistant duties are those that can be accomplished by a chair side assistant without DTA training.
 - 2) Sterilization should not be included as a dental assistant duty.
- 5. In addition to how frequently you perform these tasks, you also will be asked to evaluate how frequently you expect and prefer to do the tasks. Several measures of different aspects of job satisfaction will also be assessed.
- 6. A biographical data sheet is included to provide information about your background. We ask you to identify yourself. If you chose not to use your name, use a code number. Please enter the date you complete(d) DTA training.
- 7. Please be as precise as you can. The information will be used to inform future DTAs about how they will be employed, what tasks they can expect to perform, and how frequently. You will be helping other DTAs by providing accurate information about what you do as a DTA.
- 8. Thank you for your cooperation.

BIOGRAPHICAL DATA SHEET

Name	Clinic						
Today's date	Post						
Rank or rating	ersago un y de l'ante por est man su l'appare l'appressi						
Age on last birthday (in years)							
Marital status (circle one) single	married divorced	separated widow					
Sex (circle one) female male							
Date of completion of DTA training (expected date if training is not	completed)	Tupit of Francisco					
How many years of civilian education h (For example, if you graduated from		12)					

INSTRUCTIONS FOR SATISFACTION ATTITUDES

- 1. Do you work with only one dentist? Yes No
- 2. If no,
 do you rotate from chair to chair

or does the dentist rotate between chairs Yes No

In evaluating your attitude toward your Superviser (Team Dentist)
choose the one you work with most frequently. If you work with
more than one dentist very frequently, rate your Superviser in
general.

Yes

No

No

4. Who are your co-workers, that is, the individuals you work with most frequently? (Circle those that are applicable)

military dental assistant civilian dental assistant

military dental hygienist civilian dental hygienist

military DTA civilian DTA

lab technician other

5. In general, are your co-workers generally working with you? Yes No If no.

do your co-workers rotate? Yes

- or do you not have permanent co-workers
 that is, they are only temporary help
 Yes No
- 6. In determining your attitude toward your Co-workers, choose the one you work with most frequently. If you work with more than one very frequently, rate your Co-workers in general.

SUBJECT: Instructions for Administration of Survey Materials

- 1. The purpose of the study is to determine attitudes of team dentists and dental therapy assistants (DTAs), how their attitudes may change (as evaluated by a three-month follow-up), and whether the attitudes (preferences and expectations) are related to job satisfaction and frequency of performance of tasks. The results are expected to provide assistance in describing the present Program of Instruction for the DTA course. The study has been approved by the Health Services Command Study Advisory Committee.
- 2. The survey instruments are in individual packets which will be given to each DTA and dentist working with the DTAs individually. Inclosure 1 contains a copy of the survey instruments (the packet for each DTA). It contains a biographical data sheet, three job satisfaction scales, three attitude scales (expectations and preferences), and twenty work tally sheets. The study will cover 21 consecutive work days. Inclosure 2 gives a recommended timetable for the study. The sequence of events is as follows:
- a. On Friday 28 March give all DTAs their individual packets. On the same Friday afternoon have the DTAs fill out: the biographical data sheet, a job satisfaction scale, and an attitude scale surveying their expectations and preferences for the next ten consecutive work days.
- b. On Monday, 4 April of the second week each dentist working with the DTAs should be given the sheet for recording their expectations for one DTAs performance (see inclosure 3).
- c. Also on Monday, 4 April and continuing for the next two weeks (ten work days), each DTA is to fill out on each day a worksheet describing the frequency of performance of the list of tasks. A running tally is recommended, that is, each time a task is performed, the DTA should make a mark beside that task on the worksheet. The total number of tallies per task should be recorded at the end of each day on the worksheet. Then the worksheet should be replaced by a new one for the next day.
- d. On Friday, 14 April of the third week, after the DTAs have completed their daily tally sheet, each DTA will take a satisfaction scale and an attitude scale. The attitude scale is to measure their expectations for the next two weeks.
- e. On Monday 18 April through 28 April administer to DTAs the performance worksheets. Also on ²⁸ April, administer to DTAs the satisfaction scale and the attitude scale (expectations and preferences).

diver it

SUBJECT: Instruction for Administration of Survey Materials

- 3. The results obtained will be as follows:
 - a. Dentist's expectations for one DTA.
 - b. For each DTA.
 - (1) Three Satisfaction Scales
 - (2) Three Attitude Scales
 - (3) One Biographical Data Sheet
 - (4) Twenty Work Tally Sheets
- 4. Analysis will be made of the frequency of performance of tasks by DTA, the preferences and expectations of the DTAs, the DTA's job satisfaction, and biographical information. The relationship between the DTA's performance and the dentist's expectations will also be examined.
- 5. We appreciate your cooperation.

SUBJECT: Timetable for Final Phase of DTA Study

FIRST WEEK:

28 March Friday Receive packets Administer to DTAs

Attitude scale (expectations and preferences)

Satisfaction scale
 Biographical data inventory

SECOND WEEK:

4 April Monday Administer expectations sheet to dentists

working with DTAs

Monday thru Friday

Administer to DTAs actual performance

worksheets (one/day)

THIRD WEEK:

Monday thru 11 April

Friday Friday Administer to DTAs actual performance

worksheets (one/day) Administer to DTAs 1. Satisfaction scale

2. Attitude scale (expectations and preferences)

FOURTH WEEK:

18 April

Monday thru Friday

Administer to DTAs actual performance

worksheets (one/day)

FIFTH WEEK:

25 April

Monday thru

Friday Friday Administer to DTAs actual performance

worksheets (one/day) Administer to DTAs

Satisfaction scale
 Attitude scale (expectations and preferences)

APPENDIX E

HEALTH CARE STUDIES DIVISION PHASE I
DTA Phase I Overall Responses

	DTA AC	TUAL		DTA P	REFERRI	ED	DTA E	XPECTE	D	DENTI	STs' EX	PECT	
RESTORATIVE	×	S.D.	Ŋ.	x,	S:D.	. И	×	s.D.	N.	¥	S.D.	N	
i	22.73	18.31	306	44.57	27.36	298	38.85	25.65	298	55.65	31.36	124	
2	46.70	26.86		77.16	46.96		68.03	44.87		89.80	55.53		
- 4	10.98	9.61		22.07	22.77		19.29	20.53		32.26	20.84		
4	2.24	4.19		5.45	12.1/		4.57	10.62		3.31	10.89		
5	8.16	13.47		20.59	29.99		15.74	24.00		34.75	41.94		
, 6	45.94	31.41		72.33	53.08		68.76	52.04		75.92	56.61		•
7	5.32	12.88		12.45	22.92		13,39	22.39		30.26	38.76		
8	32.39	20.43		60.38	44.56		56.90	38.93		87.12	55.23	-	
9	7.13	8.90		12.88	18.99		14.31	21.24		23.19	19.91		
10	1.56	3.72			7.50		2.43	5.16			8.27		
11	0.12	0.50			6.42			1.55			1.08		
. 12	10.50	17.40		22.13	40.76		22.78	39.46		33,34	48.66		
	1												- :
PREVENTIVE													
1	7.28	10.39	306	10.41	9.85	298	11.42	11.44	298	20.37	21.67	124	
2.	5.00	14.89			10.52			11.46			21.07		
3	5.72	6.62	news 5	7.82	8.59	2 1.0	8.79	9.62		13.03	14.22		
4	17.47	20.78		28.26	32.07		27.29	28.22		42.70	45.26		
. 5	0.38	1.68		1.91	5.13		1.29	6.80		1.94	6.03		
6	3.71	5.88		8.19	11.58		7.70	11.12		13.45	15.48		
7	3.65	37.63	•	2:07	9.61	297	1.78	11.38		4.26	16.76	123	

*					**							-	
													1 15

HEALTH CARE STUDIES DIVISION PHASE I
DTA Phase I Overall Responses

* * * * * *				•••	•								
	DTA AC	TUAL		DTA P	REFERRI	ED	DTA E	ХРЕСТЕ	D	DENTI	STs' EX	PECT	
INDIRECT	×	S.D.	Ŋ-	<u>x</u> .	S.D.	и	×	S.D.	N.	×	S.D.	N	100%
1	40.10	35.33	303	33.23	32.46	298	49.29	38.70	295	51.22	40.65	123	
. 2	20.38	27.27	306	20.54	33.75		27.78	36.82	298	30.84	40.99	124	
ع.	_0.26	1.19		1.27	3.24		0.56	2.29		1.17	4.05		
4	0.74	1.97		3.53	6.79		2.01	5.06		3.91	11.88		
5	18.86	25.07		26.09	30.38		24.66	28.78		17.87	33.49		
6	18.90	28.00		16.63	31.34		18.58	30.16		35.48	55.88		•
7	42.40	26.44		57.39	43.80		56.41	32.18		65.69	43.96		
8	3.34	8.05	* 4	5.29	10.36		4.40	11.84		8.29	19.26		
9	4.16	14.41		4.77	12.74		4.29	13.43		7.28	17.10		
10	0.11	0.73		1.30	3.68		0.45	3.09		2.66	13.17		
11	U.05	0.56		0.64	5.60		0.16	2.67		0.78	6.81		
. 12	1.31	9.63	~₹	2.75	10.13		1.99	9.30		2.26	9.33	123	
		11.		**									**
BARTENEC	•												
PATIENTS - Full	20.26	21.48	296	33. 4									
Part	17.99	17.72											
Not at all		18.45											
AND WAR STORY	301 %	170	· 17 15.					A.200					*
No show	0.08	0.83		7. 60	20 67	200	40 10	24.02	200	105.03		126	,
Total Seen		-	296		28.57	300	68.10	24.02	300	105.92	40.44	120	
Days	8.10	1.42	306			:							
**			•		. ***								:
				-									:
					*:							.t.	· i
*						- bess					.7	-1 :	11 15

HEALTH CARE STUDIES DIVISION PHASE I
DTA Phase I Overall Responses

	DTA AC	TUAL		DTA PI	REFERRE	D	DTA E	XPECTE	D	DENTI	STs' EX	PECT	
OTHER	x	S.D.	N.	x	s:D.	и	×	S.D.	N.	×	S.D.	N	
1	0.21	1.20	305	1.57	5.59	298	0.98	2.50	298	1.44	2.64	123	
. 2	0.49	1.59	Br.	2.56	5.92	4.1	1.29	3.27		1.94	4.09		
3-	-0.12	0.77		1.64	5.85		0.64	3.05		0.48	1.14		
4	0.31	1.18		2.35	5.81		1.00	2.33		1.78	4.30	.0	0
5	2.11	4.88	306	5.13	7.91		3.53	6.52		6.73	11.67		
' 6	0.15	1.88		1.98	6.33		0.32	1.95		0.79	3.08		
. 7	0.13	1.90		1.51	6.42	en.	0.33	2.60		1.47	9.19		
. 8	0.40	1.53		2.53	5.68		1.33	2.83		2.70	6.84		B
9	1.77	5.49		4.07	7.67	i h	2.86	6.20		4.78	7.35		
10	1.66	5.15		4.20	7.72		3.07	6.22		5.09	9.26		
. 11	1.22	4.97		3.61	7,50		2.37	5.84		4.44	7.57		
. 12	0.84	7.23		1.76	6.24		0.82	5.66		1.34	5.70		
13	0.03	0.33		1.12	5.18		0.08	0.68		0.31	1.87		
14	1.57	5.06			11.23		3.31	8.18			13.04		
. 15	0.27	1.18		3.41			0.78			1	5.61		
16	0.07	0.66		1.69	5.71		0.16			0.29			
. 17	0	0		1	4.91		0.04	0.29		0.23			
18	0.04	0.40	**.		12.08		0.83			1.36			
19	0.93	9.16		11.50	13.05		1.29			2.13		122	
20	0.07	0.58		2.86	11.33		0.65	4.28		1.43	3.54	122	
		41	34.										
				1.	- 52								
				·						·			
				1									

APPENDIX F

HEALTH CARE STUDIES DIVISION PHASE II
DTA PHASE II OVERALL RESPONSES

	· ·	:											
	DTA AC	TUAL		DTA P	REFERR	ED	DTA I	XPECTE	D	DENTI	STs' E	PECT	
RESTORATIVE	×	S.D.	Ñ-	x'	S.D.	N	×	s.D.	N	×	S.D.	N	
•	22 (1	20 57			70		26.01						
1	22.61	20.57			32.70			29.53			33.27		
. 2	54.80	26.17			50.02			44.95			55.45		
	11.36				29.29			25.80			29.24		
4	4.49	7.84			18.59	1		17.51			12.00		
5	10.77	15.60	277	24.94	32.44	269	23.91	39.74	270	33.11	34.19	135	
, 6	39.50	36.76	277	78.80	56.77	268	78.68	55.14	267	80.82	68.53	135	
7	7.12	14.42	277	15.37	30.07	271	15.49	28.93	271	30.64	38.66	135	
8	40.03	23.93	27/	62.70	48.59	267	64.00	46.80	268	84.63	57.21	135	
9	7.70.	8.30	277	12.20	14.19	271	14.49	14.25	271	29.59	40.66	135	
10	1.49	3.94	277	3.71	6.46	271	2.69	6.27	271	6.65	13.45	135	
(-11	0.16	0.77	2/7	1.01	2.45	271	0.36	1.34	271	0.45	1.41	135	
12	14.34	21.64	277	23.36	40.41	270	23.60	43.96	271	22.05	33.46	135	
-													
PREVENTIVE						-							
	8.98	8.64	277	11.50	15.31	271	14.44	18.11	471	18.96	16.64	135	
2 .	7.02	9.76	277	9.90	16.75	271	11.95	18.86	271	14.25	16.89	135	
3	7:97	8.18	277	9.16	14.86	271	11.97	17.43	271	11.91	12.02	135	*
4	23.10	23.05	277	31.28	31.05	271	32.76	30.32	271	44.24	38.55	135	
5	0.45	2.48	277	1.45	3.92	271	U.84	3.73	2/1	1.40	4.58	135	
6	5.88	7.87	277	8.23	15.23	271		18.01	271	13.99	1	135	
,	0.96	6.15	277		7.43	271	1.67	7.79	271	* * * * *	23.34	135	
				4	-7-								
												. 1	
	•	1 . 1		ا ا			-	. 1		,-!	. 1	F. 1	11.10
						68	49.		•				

HEALTH CARE STUDIES DIVISION PHASE II
DTA PHASE II OVERALL RESPONSES

	<u> </u>						·					· ·	
	DTA AC	TUAL		DTA P	REFERRI	CD	DTA E	XPECTE	D	DENTI	STa' EX	PECT	
INDIRECT PATIENT CARE	x	S.D.	N-	ž.	S.D.	N	×	S.D.	N	×	S.D.	N	
TATEMI CALL			• •										
1	45.56	34.37	275	33.92	34.37	2/0	46.62	36,39	266	50.68	42.06	134	
. 2	20.40	25.39	277	16.45	27.77	271	21.94	29.92	270	32.05	42.66	134	
						271		1.37		1.45		134	
3-	~0.31	0.94		1.46									
	. 1.00	4.27	277	2.70	7.58	271	1.97	7.76	271	3.90	7.82	134	
5	24.98	27.27	276	27.20	33.87	270	27.40	33.05	270	21.41	36.63	134	
. 6	19.73	29.31	277	17.50	29.17	269	21.52	31.97	269	28.05	45.66	134	
7	49.84	27.94	277	59.23	39.96	269	59.28	37.86	269	68.6/	49.70	134	
. 8	3.97	11.45	277.	5.63	15.69	271	5.35	17.42	271	8.67	19.29	134	
	3.26	10.94	277	5.03	14.45	271	4.73	15.73	271	7.20	19.90	134	
10	0.10	0.55	****	1.04	2.93	271		6.63		3.18	14.93	134	
11		3.52		1.01		271	0.55			0.22		134	
	0.34	. 4.2 %		111		:							
. 12	1.49	8.69	277	2.38	9.98	271	1.86	9.56	271	1.33	5.02	134	
		11.		11. 7.		•		•					
PATIENTS			. **.										
Pull		17.7	13	**									
Part							•						
Not at all													
No show	6.18	6.36	272	100 THE	r report	4		•			•		* 1
Total Seen				78.60	26.77	264	74.15	25.38	266	90.09	38.35	137	
			47 /A.				12.7						
Days	.:				1	4 Ve.							
		1.0		1	1								
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NEALTH CARE STUDIES DIVISION PHASE II
DTA PHASE II OVERALL RESPONSES

	DTA AC	TUAL		DTA P	REFERRI	ED	DTA E	XPECTE	D	DENTI	STs' EX	PECT	
OTHER	×	S.D.	Ñ-	ž.	S.D.	· · · N	×	s.D.	N	×	S.D.	N	
1	0.32	1.20	277	1.64	7.23	271	1.64	7.53	271	2,11	5.03	134	
2	0.64	2.33	277	2.26	5.69	271	1.43	6.53	271	2.98	7.75	134	
3	_0.10	0.72	2/7	1.29	3.88	271	0.64	3.59		0.99	3.35	134	
4	0.29	1.11	277	2.12	5.70	271	1.43	5.85	271	2.50	6.83	134	
5	2.24	5.84	277	4.81	7.42	271	3.59	5.90	271	8.30	11.02	134	
. 6	0.05	0.46	277	1.45	4.25	271	0.46	3.23	271	1.39	5.51	134	
7	0.07	0.44	277	1.13		271	0.49	3.32		1.32		134	
8	0.46	2.54	277	2.47	6.22	271	1.84	6.77	271	3.06		134	
9	1.70	5.43	277.	4.19	7.56	271	3.40	8.55	271	5.31	8.06	134	
10	1.74	5.16	2/7	4.24	7.38	271	3.54	8.52	271	5.76		134	
11	0.91	2.98	277	3.38	6.86	271	2.51	7./0		3.96		134	
.12	0.64	4.88	277	1.57	5.67	271	0.81	4.99	271	1.08		134	
-13	0.00	0.10	277	0.49	1.84	271	0.07	0.54	271	0.23		134	
14	1.82	6.08	277	4.08	7.26	271	3.21	6.58	271		15.11	134	
15	0.22	0,79	277	3.01	6.18	271	1.15	4.53	271	3.12		134	
16	0.04	0.31	277	1.26		271	0.36	2.01	271	1.13		134	
17	0	0	277	0.83	6.98	271	0.47	6,47	271	0.36	2.66	134	
18 •	0.71	3.65	277	4.46	16.75	271	1.94	8.57	271	3.85	12.58	134	Tank.
19	1.05	4.37	277	5.56	17.77	271	2.73	9.97	271	5.61	14.39	134	
20	0.5/	3.32	277	2.86	10.24	271	1.54	6.81	271	3.68	12.50	134	
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HEALTH CARE STUDIES DIVISION PHASE II DTA PHASE II FERUBACK OVERALL RESPONSES

	DTA AC	TUAL		DTA P	REFERRE	ED	DTA E	XPECTE	D	DENTI	STS' EX	PECT	1000
ESTORATIVE	×	s.D.	Ň.	x.	S.D.	·- N	×	S.D.	N	×	S.D.	N	
1	18.24	20.69	150	34.92	31.46	146	30.63	29.17	146	39.14	29.92	71	
2	52.32	26.04		80.82	50.83	145	70.28	44.24	145	84.16	47.96		
3_	10.84	12.21		24.47	33.11	146	20.86	27.92	146	36.50	29.40		
4	5.31	8.26		8.92	21.25	146	7.89	20.63	146	4.32	12.34		
5	9.45	13.57		24.27	32.44	146	21.95	30.84	146	30.54	31.46		
. 6	59.01	40.11		75.28	60.37	144	74.38	58.68	144	83.11	70.21		
,	8.18	15.14			30.75	146		28.39			40.47		
	39.39	26.30			52.13			47.98			55.85		
9.	8.31	9.37	1.1.	1.000	14.68	146		14.66			51.78		
10	1.55	4.42			7.31	146		7.61			15.65		
11	0.14	0.63		1.17		146	0.32				1.78 27.05		
. 12	14.29	20.55		20.39	36.56	146	19,40	33.78	146	20.00	27.03		
					3 to 1								
PREVENTIVE													201
1	9.94	9.04		12.44	18.61	146	16.23	21.51	146	21.80	20.10	71	
2 ,	8.40	11.01		11.74	20.40		15.00	22.40		17.01	18.78		
3.	8:.75	8:53	22.00.00	10:56	18.39	.2.6.	13:69	20.49		13.53	14.16		
•	20.90	18.87		28.09	32.26		30.67	30.88		46.84	40.34		Late
5	0.52	2.75			4.90			4.65			5.27		
6 .	7.03	8.57		1 .	19.67			22.22			32.19		
7	1.25	7.84		2:30	9.83		2.18	9.78		6.76	18.16		

HEALTH CARE STUDIES DIVISION PHASE II

DTA PHASE II FEEDBACK - OVERALL RESPONSES

	DTA AC	TUAL		DTA P	REFERR	ED	DTA E	XPECTE	D	DENTI	STs' EX	PECT	
INDIRECT PATIENT CARE	×	s.D.	Ñ-	<u>x</u> .	S.D.	· · · N	×	S.D.	N	x	S.D.	N	(userrati
1	40.44	28.23	150	31.92	32.45	146	39.13	28.50	145	51.74	42.06	71	
2	21.20	25.24		17.82	26.01		21.90	26.92	146	36.33	45.57		
-6-	-0.33	0.99		2.26	11.41		0.60	1.58	146	1.69	6.46		
4	1.10	4.62		3.39	9.73		2.33	9.60	146	5.22	9.88		
5	29.39	29.73	149	28.85	35.35	145	29.30	33.78	145	23.42	39.90		
, 6	19.26	27.85	150	18.22	28.77	145	20.06	29.49	145	30.91	51.23		
7	51.32	28.60		56.63	41.54	145	55.93	36.94	145	67.00	50.89		
8	3.67	9.87		4.63	9.86	146	3.82	11.43	146	8.91	21.15	-	
9	2.25	6.75		3.91	8.90		3.19	10.19	146	6.80	20.65		
10	0.10	0.46	*** **** ***** *****	1.15	2.93		0.53	2.74	146	4.92	20.01		
11	0.19	1.39		0.88	8.38		0.27	3.31	146	0.25	0.84		
. 12	1.74	9.73		2.52	9.18		1.73	8.22	146	2.16	6.39		
	1:		1.1										
			1										
PATIENTS													
Full	26.46	25.66	148										
Part	14.90	15.73						1		in. e	30.0		
Not at all	23.50	24.70		1	10.2		150.5						
No show	5.74	5.88	*******	7.52.7.07	or strained.	-					91.4		
Total Seen	65.36	17.23	148	77.99	22.83	142	72,20	19.21	145	83.07	35.73	71	
Days	8.63	1.17	150	1111			00.	146.3		100	452.0		
	1000	1010					178.1	al mile		12.8	100.0		
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HEALTH CARE STUDIES DIVISION PHASE II
DTA PHASE II FEEDBACK QVERALL RESPONSES

	DTA AC	TUAL		DTA P	REFERRE	D	DTA E	XPECTE	D	DENTI	STs' EX	PECT	
OTHER	×	S.D.	Ñ-	<u>x</u> .	S.D.	· · · N	×	S.D.	N	×	S.D.	N	
1	0.47	1.43	150	2.51	9.67	146	2.24	9.94	146	3.04	6.58	71	
2	0.62	2.40		2.66			1.67	led prod	M 1 (2)	3.64			
3-	_0.15	0.95		1.45	4.39		0.60			1.46			
4	0.29	1.08		2.23	5.55		1.19	3.96		3.02	8.51		
. 5	2.38	6.68	. 4	5.35	8.63		3.63	6.28		9.39	12.59		
. 6	0.05	0.46		1.96	5.56		0.74	4.35		2.30	7.35		
7	0.11	0.56		1.30	4.56		0.54	2.45		2,15	7.15		
8	0.63	3.24		3.04	8.14		2.41	9.01		3.80	6.70		
9	1.28	3.91		4.41	8.23		3.56	9.87		5.98	8.64		
10	1.47	4.02		4.40	7.91		3.78	9.87		6.70	9.43		
- 11	0.59	2.20		3.40	7.82		2.71	9.52		4.28	6.72	,	
12	0.60	5.61		1.30	3.84		0.59	3.04		0.84	3.44		
. 13	0.00	0.10		0.64	2.36		0.10	0.72		0.38	1.71		
. 14	1.76	6,27	-,-44 -,-	4.44	8.39		3.33	7.24		10.36	16.69		
15	0.30	0.92		3,95	7.78		1.80	6.02		4.28	9.91		
16	0.05	0.35		1.54	4.82		0.55	2.63		1.46	6.22		
. 17	0	0		0.61	3.61		0.04	0.31		0.64	3.63		
18 .	0.99	4.44		5.57	20.40		2.43	8.85		4.60	13.53		
19	0.71	3.21	******	5.83	20.53	-	2.46	9.10		5.83	14.86		
20	1.05	4.47		3.95	12.90		2.63	9.12		4.52	13.62		
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HEALTH CARE STUDIES DIVISION PHASE II
DTA PHASE II NO FEEDBACK OVERALL RESPONSES

	DTA AC	TUAL		DTA P	REFERRI	ED	DTA E	XPECTE	.D	DENTI	STs' EX	PECT	1
RESTORATIVE	×	S.D.	Ñ-	<u>x</u> .	S.D.	. · N	×	s.D.	N	×	S.D.	N	
1	27.77	19.27	127	49.77	32.43	125	44.25	28.34	125	54.92	35.03	64	
2	57.73	26.12		89.59	48.83	124	81.87	45.14	124	98.43	62.26		
2-	11.98	9.56		25.21	24.20	125	24.23	23.09	125	38.56	29.25		
4	3.53	7.22		6.17	14.82	124	5.10	12.82	124	3.42	11.69		
5	12.34	17.64		25.74	32.55	123	26.21	48.19	124	35.95	37.03		
. 6	60.08	32.50		82.90	52.23	124	83.72	50.46	123	78.28	67.08		
7	5.88	13.47		15.39	29.38	125	15.98	29.66	125	24.45	35.85		
8	40.78	20.86		66.60	43.98	123	68.79	45.11	124	81.42	58.96		
9.	6.98	6.79		11.79	13.65	125	14.13	13.80	125	22.01	20.65		
10	1.43	3.30		3,48	5.33	125	2.48	4.20	125	5.93	10.55		
11	0.18	0.91		0,82	1.83	125	0.40	1.31	125	0.34	0.83		
. 12	14.41	22.95		26.85	44.43	124	28.44	53.21	125	24.34	39.47		
											9 11.		
		18.4		1 2 3							T or a		
PREVENTIVE		96.2									i can		
1	7.84	8.02	127	10.41	10.17	125	12.34	12.86	125	15.81	11.00	64	
2 .	5.40	7.77		7.75	10.76		8.40	12.80	125	11.18	14.02		
3	7:06	7:68	tureries s	7.52	8.95	. 2"	9.95	12.78		10.12	8.85	•	
4	25.69	27.01		35.00	29.26		35.20	29.58		41.35	36.56		
5	0.37	2.13		1.00	2.24		0.57	2.20		0.57	3.54	;	٠
6	4.52	6.71		6.09	6.62		7.99	10.82		10.12	12.16	SP12	+1
7	0.61	3.13		0.64	2.39		1.07	4.42		5.82	28.15		
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HEALTH CARE STUDIES DIVISION PHASE II

DTA PHASE II NO FEEDBACK - OVERALL RESPONSES

	<u> </u>				<u>·</u>		· -						
	DTA AC	TUAL		DTA P	REFERRI	ED	DTA E	XPECTE	D	DENTI	STs' EX	PECT	
INDIRECT PATIENT CARE	×	s.D.	N-	<u>x</u> .	S.D.	· · · N	×	s.D.	N.	×	s.b.	N	101100
. 1	51.71	39.79	125	36.28	36.50	124	55.59	42.44	121	49.49	42.37	63	
2	19.44	25.63	127	14.84	29.72	125	22.00	33.17	125	27.23	38.92		
- 3-	-0.27	0.88		0.52	1.32		0.35	1.07		11.19	3.63		
4	.0.89	3.84		1.88	3.62		1.54	4.79		2.55	4.14		
5	19.80	23.13		25.28	32.09		25.20	32.17		19.15	32.71		
' 6	20.29	31.05		16.66	29.74		23.23	34.69		24.82	38.59		•
7	48.09	27.15	0.71	62.27	37.97		63.20	38.69		70.55	48.67		
8	4.33	13.11		6.80	20.48		7.14	22.40		8.39	17.11	-	
9	4.45	14.35		6.35	18.94		6.54	20.28		7.66	19.18		
10	0.09	0.65		0.90	2.94		1.33	9.30		1.22	4.32		
11	0.52	4.98		1.17	8.44		0.88	7.43		0.19	1.28		
. 12	1.20	7.30		2.20	10.88		2.02	10.95		0.39	2.53		71.
	174												
													51
PATIENTS	•												
Full	16.94	18.55	124				,						
Part	22.73	19.94			2.76	2							
Not at all	19.15	17.00											
Wo show	6.71	6.88	· Trackt	Sec.		• • • • • •							ale service
Total Seen	58.97	15.46	124	79.31	30.82	122	76.50	31.13	121	97.65	39,68	66	
Days	8.73	1.18	127	1.									
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HEALTH CARE STUDIES DIVISION PHASE II

DTA PHASE II NO FEEDBACK OVERALL RESPONSES

	DTA AC	TUAL		DTA PI	REFERRE	ED	DTA E	XPECTE	D	DENTI	STs' EX	PECT	
OTHER	×	S.D.	Ñ-	ž.	S.D.	· .N	×	S.D.	N	×	s.b.	N	
1	0.15	0.84	127	0.62	1.62	125	0.94	2.66	125	1.07	1.83	63	
2						123			123			03	
	0.68	2.26		1.79	2.88		1.16	2.63		2.23			
3-	-0.04	0.27		1.11	3.20		0.69	3.53		0.46			
4	0.29	1.14		1.98	5.88		1.72	7.49		1.90			
5	2.07	4.67		4.19	5.66		3.55	5.46		7.07	8.87		
. 6	0.05	0.46		0.86	1.58		0.12	0.64		0.36	1.42		
7	0.03	0.26		0.93	4.28		0.43	4.12		0.39	1.51		
8	0.27	1.29		1.80	2.42		1.18	2.01		2.23	6.70		
9	2.22	6.78		3.92	6.71	100	3.23	6.73		4.55	7.33		
10	2.06	6.25		4.06	6.75		3.26	6.63		4.69	7.35		
11	1.28	3.67		3.36	5.57		2.27			3.60			
	0.68	3.86		1.88	7.24	12	1.08			1.36			
.12													
. 13	0.00	0.09		0.32	0.89		0.03			0.06			
14	1.88	5.88	1.1	3.67	5.67	19.1	3.08	5.74		8.22	13.16		
15	0.13	0.58		1.92	3.20		0.40	1.13		1.32	3.43		
16	0.03	0.25		0.94	2.05		0.13	0.58		0.76	2.02		. 1111
17	0	0		1.09	9:52		0.98	9.52		0.04	0.21		7483
18	0.37	2.40		3.17	11.00		1.37	8.23		3.00	11.45	433	C 24 3
19	1:45	5.41		5.25	13.95		3.04	10.94		5.36	13.95		
20	0.00	0.09		1.60		1.5	0.28				11,14		
	1			in the	*****	25.				1			
in the same	*												
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APPENDIX G

AGE (MEAN) BROKEN DOWN BY LEVEL-OF-TRAINING FOR EACH POST

Age (mean)	In Trn	g-3 mon	4-9	mon	10-18	mon	Popu1	ation
Post	I	II	I	II	I	II	I	11
2	28.81	29.00		38.00	40.33	41.00	31.28	33.50
3	34.22	34.00	35.22	35.25	36.57	39.40	35.24	35.40
4	31.25	26.54		37.16	37.60	35.88	33.11	33.15
5	26.77			27.42	37.83	37.00	31.20	32.53
6	34.80	35.20			41.00	41.42	38.41	38.83
7	27.33			24.14	31.00	24.00	27.70	24.12
8	30.66			31.33	40.25	40.75	34.50	35.10
9	37.50		34.25	38.00		33.80	35.33	35.30
10	25,00		e xtag	27.14	24.00	29.00	24.66	27.70
11	34.00		P.	35.33	43.14	49.00	38.92	40.80
12	31.40	32.33	75	40.50	32.33	33.33	31.61	36.66
13			40.33		41.00	42.80	40.50	42.80
14	32.50		34.50	32.83	43.66	37.50	35.53	35.16
15	28.33	29.00			33.00	33.66	30.66	31.3
16	29.00	28.60		25.00	37.00	39.40	33.00	33,18
17	33.33	33.25		32.00			33.33	33.1
18	30.14	33.75		27.33			35.10	31.00
19	31.66	32.00			36.00	38.66	34.14	35.33
20			40.25		46.83	44.50	44.20	44.50
21	25.90		45.00	27.16	30.14	32.25	28.61	30.07
22	33.66	34.00			41.60	41.50	38.62	39.00
23	34.71	38.75	33,42		47.57	44.09	38.57	42.66
24	37.00	30.60	35.25	50.00		39.00	35.83	37.00
Overall							34.16	35.04

YEARS OF EDUCATION (MEAN) BROKEN DOWN BY LEVEL-OF-TRAINING FOR EACH POST

Years of Education (mean) In Tr	ng-3 mon	4-9	mort	10-18	mon	Popul	ation
Post	I	11	I	II	I	11	1	11
2	12.81	12.50		14.00	14.00	14.00	13.07	13.10
3	12.66	12.62	13.50	13.62	12.30	12.57	12.77	12.9
4	12.56	12,63		12.91	12.80	12.77	12.63	12.78
5	13.00			13.14	12.50	12.62	12.80	12.86
6	13.00	12.60			13.28	13.57	13.16	13.16
7	13.22			13.14	16.00	13.00	13.72	13.12
8	13.16			13.16	12.25	12.50	12.80	12.90
9	12.25		12.50	12.25	65-34	12.40	12.33	12.30
10	13.33	P. L. D. K.		13.33	13.33	12.00	13.33	12.88
11	12.00			12.00	12.62	11.75	12.35	11.90
12	12.40	12.33		12.33	13.00	13.33	12.53	12.58
13			14.00		12.00	13.50	13.60	13.50
14	12.66		12.50	12.33	13.25	12.16	12.75	12.25
15	12.66	12.66			12.00	12.00	12.33	12.33
16	12.20	13.00		12.00	13.20	13.40	12.70	13.09
17	12.66	12.75		13.00			12.66	12.76
18	12.87	13.60		13.33	12.75		12.83	13.50
19	12.00	12.00		10.33	13.00	12.66	12,57	12.33
20			14.20		13.50	13.81	13.81	13.81
21	12.30		13.00	12.16	13.00	13.42	12.61	12.84
22	12.75	13.33			12.40	12.33	12.55	12.66
23	12.28	12,50	12.28		13.00	12.63	12.52	12,60
24	12.00	12.16		12.00	12.50	12.33	12.12	12.18
Overall							12.78	12.79

WORK (MEAN) BROKEN DOWN BY LEVEL-OF-TRAINING FOR EACH POST

Work (mean)	In Trn	g-3mon	4-9	mon	10-18 mon		Population	
Post	I	11	1	11	I	11	1	II
2	43.45	38.00		51.00	34.50	36.33	41.06	38.4
3	42.66	42.15	45.11	41.00	40.90	38.14	42.82	40.1
4	42.95	45.72		40.91	41.80	43.88	42.61	43.4
5	42.11	01.13		42.42	46.16	42.75	43.73	42.6
6	38.80	41.20		ne et i	40.00	37.85	39.50	39.
7	43.44			46.71	48.50		44.36	46.
8	42.16			43.33	47.75	43.75	44.40	43.
9	43.00		46.25	41.50		43.00	44.33	42.
10	33.50			40.14	30.66	32.00	32.55	37.
11	45.16	53.52		46.00	43.62	44.50	44.28	45.
12	46.75	49.00		47.80	45.33	43.66	46.36	46.
13	51 98.65		40.00		43.00	42.33	40.60	42.
14	46.50	15.37	47.16	45.16	34.75	45.00	43.81	45.
15	45.00	44.00		61.11	43.33	44.00	44.16	44.
16	42.80	41.00		33.00	46.80	38.40	44.80	39.
17	42.75	42.83		46.00			42.75	43.
18	47.50	48.80		40.66	45.75		46.91	45.
19	41.00	32,66		Sa '3.1	38.00	38.00	39.28	35.
20			39.60		45.16	44.90	42.63	44.
21	39.55		46.00	40.25	40.14	36.12	40.17	37.
22	42.25	42.33		m.te	44.20	44.00	43.33	43.
23	48.14	44.25	48.57	52,52	38.00	44.36	44.90	44.
24	48.50	44.66		47.00	48.50	49.66	48.50	46.
Overal1							43.00	42.

SUPERVISOR (MEAN) BROKEN DOWN BY LEVEL-OF-TRAINING FOR EACH POST

Supervisor (mean)	In Trn	g-3 mon	4-9	mon	10-18	-18 mon Population		
Post	I	11	1	II	I	11	ı	II
2	45.72	44.85		54.00	44.66	40.00	45.50	44.5
3.	46.88	47.37	46.33	47.50	44.70	42.28	45.92	45.9
4	45.45	47.45		46.33	40.10	50.11	43.88	47.7
5	48.11			49.14	50.33	50.75	49.00	50.0
6.	51.20	44.40			43.71	45.42	46.83	45.0
7	49.77	\sim		50.42	35.00		47.09	50.4
8	47.16			47.66	43.25	48.50	45.60	48.0
9	43.75		46.25	42.50		49.60	44.44	46.6
10	26.33			38.85	37.33	36.66	30.00	38.2
11	46.16			43.66	42.12	43.75	43.85	43.7
12	47.25	49.00		49.60	49.00	49.33	47.72	49.4
13			49.25		54.00	47.66	50.20	47.6
14	52.00		46.50	44.50	41.25	43.00	47.25	43.7
15	48.33	49.00			49.00	46.00	48.66	47.5
16	47.20	45.20		49.00	47.80	49.00	47.50	47.2
17	45.33	45.41		51.00			45.33	45.8
18	45.12	49.00			44.50		44.91	46.1
19	42.33	42.33			46.00	48.66	44.16	45.5
20			45.60		47.00	46.18	46.36	46.1
21	48.88		45.00	49.20	36.28	45.00	43.47	46.6
22	36.25	50.66			48.80	47.66	43.22	48.6
23	42.71	47.75	46.42		42.42	44.81	43.85	45.6
24	48.00	46.33		46.50	46.75	46.33	47.37	46.3
Overe11							45.18	46.3

CO-WORKERS (MEAN) BROKEN DOWN BY LEVEL-OF-TRAINING FOR EACH POST

Co-Workers (mean)	In Trng	3-3 mon	4-9	mon	10-18	mon	Popul	Population	
Post	1	II	ı	11	1	11	I	111	
2	41.63	42.14		54.00	45.00	30.00	42.15	40.90	
3	42.22	44.12	47.44	40.37	43.55	46.50	44.40	43.1	
4	38.62	43.72		39.25	46.90	48.88	41.05	43.50	
5	36.88			42.00	38.66	40.37	37.60	41.1	
6	42.60	48.40		1	43.71	38.57	43.25	42.60	
7	48.44			49.14	36.00		46.18	49.1	
8	44.33		W.	47.33	43.00	43.25	43.80	45.70	
9	49.75	100	38.25	43.66		38.80	44.77	41.7	
10	34.83			42.85	37.33	44.33	35.66	43.30	
11	50.66			50.00	46.37	30.50	48.21	42.20	
12	45.62	43.00		47.80	46.66	40.66	45.90	44.70	
13			49.50		54.00	48.66	50.40	48.66	
14	47.83		42,50	46.83	36.50	47.16	43.00	47.00	
15	51.33	50.33			41.66	43.33	46.50	46.83	
16'	43.00	44.00		43.00	44.60	42.20	43.80	43.09	
17	41.58	46.18		52.00			41.58	46.66	
18	39.25	47.60		42.33	37.50		38.66	45.62	
19	36.66	40.00			33.33	40.00	35.00	40.00	
20			43.20		37.50	39.63	40.09	39.63	
21	38.88	1.0	45.00	42.60	35.28	31.57	37.76	36.16	
22	49.25	48.66			49.20	50.83	49.22	50.11	
23	44.00	38.25	52.28		39.57	45.72	45.28	43.73	
24	46.75	42.50		45.00	48.75	38.66	47.75	41.90	
Overall							42.83	43.50	

PAY (MEAN) BROKEN DOWN BY LEVEL-OF-TRAINING FOR EACH POST

Pay (mean)	In Trng	3-3 mon	4-9	mon	10-18	mon	Popul	ation
Post	I	11	1	II	1	11	I	11
2	8.09	6.71		21.00	9.25	10.33	8.40	8.6
3	6.44	6.28	8.00	4.00	8.10	6.71	7.53	5.5
4	12.12	15.18		11.16	8.20	8.66	10.97	11.8
5	12.11			7.00	9.16	8.50	10.93	7.8
6	9.00	12.80			8.85	13.71	8.91	13.3
7	14.88			9.57	8.00		13.63	9.5
8	9.83			10.50	3.25	3.00	7.20	7.5
9	9.75	EE, a	8.75	11.00		10.60	9.33	10.0
10	3.33			7.71	13.00	8.33	6.55	7.9
11	12.00			14.83	9.50	10.50	10.57	13.10
12	7.87	9.50		5.60	9.33	5.33	8.27	6.30
13		00.7	5.00		9.00	11.16	5.80	11.1
14	4.33		12.16	4.16	10.00	13.66	8.68	8.9
15	7.66	4.33			19.00	18.00	13.33	11.1
16	11.20	8.80		0.00	10.60	7.40	10.90	7.3
17	6.91	7.00		2.00			6.91	6.6
18	4.25	7.60		6.33	8.00		5.50	7.1
19	5.00	3.33			7.00	7.33	6.14	5.3
20			6.40	Mad.	9.33	7.80	8.00	7.8
21	9.77		14.00	7.80	12.85	8.00	11.29	7.9
22	10.75	7.00	Nr. 6		7.20	8.33	8.77	7.8
23	11.14	9.25	14.14		6.00	9.27	10.42	9.2
24	7.25	8.60		4.50	7.00	7.33	7.12	7.4
Overall				,	,		9.16	8.7

PROMOTIONS (MEAN) BROKEN DOWN BY LEVEL-OF-TRAINING FOR EACH POST

Promotions (mean)	In Trn	g-3 mon	4-9 mon 10-18 mon			Population		
Post	I	II	I	11	I	II	I	11
2	8.45	8.42		21.00	6.25	2.00	7.86	7.3
3	13.44	11.20	14.66	6.42	11.80	12.28	13.25	9.7
4	12.75	17.54		11.45	8.70	11.44	11.55	13.6
5	18.55			14.42	15.16	14.25	17.20	14.3
6	15.00	17.40			12.85	8.00	13.75	11.9
7	12.88	e of		4.57	0.00		10.54	4.5
8	12.83			6,33	1.25	0.75	8.20	4.1
9	18.25		17.75	14.25		17.20	18.66	16.8
10	5.16			7.71	3.33	0.33	4.55	5.5
11	19.83			18.66	14.00	9.00	16.50	15.4
12	18.00	14.00	0,8	8.00	14.66	11.33	17.09	10.2
13			8.50		23.00	18.33	11.40	18.3
14	15.00		13.66	11.83	9.00	11.16	13.00	11.5
15	24.33	24.33			15.66	14.66	20.00	19.5
16	9.60	6.80		0.00	7.80	2.40	8.70	4.1
17	5.00	7.66		10.00			5.00	7.8
18	11.00	14.00		5.00	9.00		10.33	10.6
19	7.00	8.66	19.0		3.50	3.00	5.00	5.8
20			12.60		17.00	11.50	15.00	11.5
21	6.00		6.00	3.40	8.42	2.00	7.00	2.5
22	10.75	4.00			6.40	4.66	8.33	4.4
23	19.14	15.00	15.00		8.14	7.27	14.09	9.3
24	16.25	9.20		7,50	9.50	5.50	12.87	8.0
Overall		-					11.85	9.9

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